HALOPERIDOL DECANOATE - haloperidol decanoate injection
Somerset Therapeutics, LLC

Haloperidol Decanoate Injection

For Intramuscular Injection Only

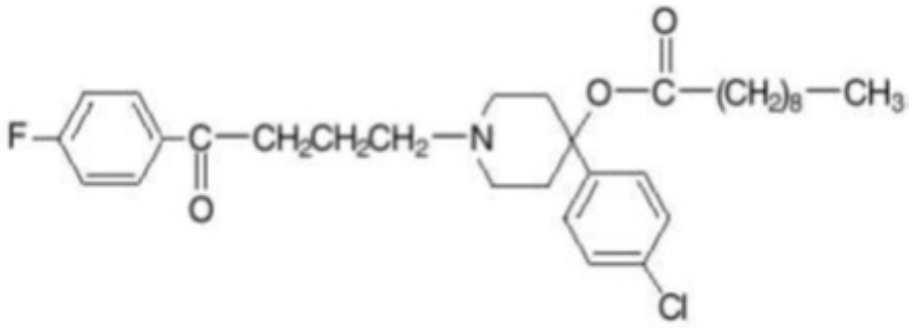
WARNING

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks), largely in patients taking atypical antipsychotic drugs, revealed a risk of death in drug-treated patients of between 1.6 to 1.7 times the risk of death in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. Observational studies suggest that, similar to atypical antipsychotic drugs, treatment with conventional antipsychotic drugs may increase mortality. The extent to which the findings of increased mortality in observational studies may be attributed to the antipsychotic drug as opposed to some characteristic(s) of the patients is not clear. Haloperidol decanoate injection is not approved for the treatment of patients with dementia-related psychosis (see WARNINGS).

DESCRIPTION

Haloperidol decanoate, USP is the decanoate ester of the butyrophenone, haloperidol, USP. It has a markedly extended duration of effect. It is available in sesame oil in sterile form for intramuscular (IM) injection. The structural formula of haloperidol decanoate, USP, 4-(4-chlorophenyl)-1-[4-(4-fluorophenyl)-4-oxobutyl]-4 piperidinyl decanoate, is:



Haloperidol decanoate, USP is almost insoluble in water (0.01 mg/mL), but is soluble in most organic solvents.

Each mL of haloperidol decanoate 50 mg (base)/mL for IM injection contains 50 mg haloperidol (present as haloperidol decanoate 70.52 mg) in a sesame oil vehicle, with 1.2% (w/v) benzyl alcohol as a preservative.

Each mL of haloperidol decanoate 100 mg (base)/mL for IM injection contains 100 mg haloperidol (present as haloperidol decanoate 141.04 mg) in a sesame oil vehicle, with 1.2% (w/v) benzyl alcohol as a preservative.

CLINICAL PHARMACOLOGY

Haloperidol decanoate injection, 50 mg/mL and haloperidol decanoate injection, 100 mg/mL are the long-acting forms of haloperidol, an antipsychotic. The mechanism of action of haloperidol for the treatment of schizophrenia is unclear. However, its efficacy could be mediated through its activity as an antagonist at central dopamine type 2 receptors. Haloperidol also binds to alpha-1 adrenergic receptors, but with lower affinity, and displays minimal binding to muscarinic cholinergic and histaminergic (H_1) receptors.

Administration of haloperidol decanoate in sesame oil results in slow and sustained release of haloperidol. The plasma concentrations of haloperidol gradually rise, reaching a peak at about 6 days after the injection, and falling thereafter, with an apparent half-life of about 3 weeks. Steady state plasma concentrations are achieved within 2 to 4 months in patients receiving monthly injections. The relationship between dose of haloperidol decanoate and plasma haloperidol concentration is roughly linear for doses below 450 mg. It should be noted, however, that the pharmacokinetics of haloperidol decanoate following intramuscular injections can be quite variable between subjects.

INDICATIONS AND USAGE

Haloperidol decanoate injection, 50 mg (base)/mL and haloperidol decanoate injection, 100 mg (base)/mL are indicated for the treatment of patients with schizophrenia who require prolonged parenteral antipsychotic therapy.

CONTRAINDICATIONS

Since the pharmacologic and clinical actions of haloperidol decanoate injection, 50 mg /mL and haloperidol decanoate injection, 100 mg/mL are attributed to haloperidol, USP as

the active medication, Contraindications, Warnings, and additional information are those of haloperidol, USP, modified only to reflect the prolonged action.

Haloperidol is contraindicated in patients with:

- Severe toxic central nervous system depression or comatose states from any cause.
- Hypersensitivity to this drug – hypersensitivity reactions have included anaphylactic reaction and angioedema (see WARNINGS, Hypersensitivity Reactions and ADVERSE REACTIONS).
- Parkinson's disease (see WARNINGS, Neurological Adverse Reactions in Patients with Parkinson's Disease or Dementia with Lewy Bodies).
- Dementia with Lewy bodies (see WARNINGS, Neurological Adverse Reactions in Patients with Parkinson's Disease or Dementia with Lewy Bodies).

WARNINGS

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Haloperidol Decanoate Injection is not approved for the treatment of patients with dementia-related psychosis (see BOXED WARNING).

Cardiovascular Effects

Cases of sudden death, QTc interval-prolongation, and Torsades de Pointes have been reported in patients receiving haloperidol (see ADVERSE REACTIONS). Higher than recommended doses of any formulation and intravenous administration of haloperidol appear to be associated with a higher risk of QTc interval-prolongation and Torsades de Pointes. Also, a QTc interval that exceeds 500 msec is associated with an increased risk of Torsades de Pointes. Although cases have been reported even in the absence of predisposing factors, particular caution is advised in treating patients with other QTc prolonging conditions (including electrolyte imbalance [particularly hypokalemia and hypomagnesemia], drugs known to prolong QTc, underlying cardiac abnormalities, hypothyroidism, and familial long QT-syndrome). HALOPERIDOL DECANOATE MUST NOT BE ADMINISTERED INTRAVENOUSLY.

Tachycardia and hypotension (including orthostatic hypotension) have also been reported in occasional patients (see ADVERSE REACTIONS).

Cerebrovascular Adverse Reactions

In controlled trials, elderly patients with dementia-related psychosis treated with some antipsychotics had an increased risk (compared to placebo) of cerebrovascular adverse reactions (e.g., stroke, transient ischemic attack), including fatalities. The mechanism for this increased risk is not known. An increased risk cannot be excluded for Haloperidol decanoate, other antipsychotics, or other patient populations. Haloperidol decanoate should be used with caution in patients with risk factors for cerebrovascular adverse reactions.

Tardive Dyskinesia

A syndrome consisting of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs (see ADVERSE REACTIONS). Although the prevalence of the syndrome appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown.

Both the risk of developing tardive dyskinesia and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase. However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses.

Tardive dyskinesia may remit, partially or completely, if antipsychotic treatment is discontinued. Antipsychotic treatment, itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and thereby may possibly mask the underlying process. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown.

Given these considerations, antipsychotic drugs should be prescribed in a manner that is most likely to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that 1) is known to respond to antipsychotic drugs, and 2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically.

If signs and symptoms of tardive dyskinesia appear in a patient on antipsychotics, drug discontinuation should be considered. However, some patients may require treatment despite the presence of the syndrome.

Neuroleptic Malignant Syndrome (NMS)

A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with antipsychotic drugs (see ADVERSE REACTIONS). Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status (including catatonic signs) and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmias). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis) and acute renal failure.

The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is important to identify cases where the clinical presentation includes both serious medical illness (e.g., pneumonia, systemic infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms. Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever and primary central nervous system (CNS) pathology.

The management of NMS should include 1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy, 2) intensive symptomatic treatment and medical monitoring, and 3) treatment of any concomitant serious medical

problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for uncomplicated NMS.

If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

Hyperpyrexia and heat stroke, not associated with the above symptom complex, have also been reported with haloperidol.

Neurological Adverse Reactions in Patients with Parkinson’s Disease or Dementia with Lewy Bodies

Patients with Parkinson's Disease or Dementia with Lewy Bodies are reported to have an increased sensitivity to antipsychotic medication. Manifestations of this increased sensitivity with haloperidol treatment include severe extrapyramidal symptoms, confusion, sedation, and falls. In addition, haloperidol may impair the antiparkinson effects of levodopa and other dopamine agonists. Haloperidol decanoate is contraindicated in patients with Parkinson's Disease or Dementia with Lewy Bodies (see CONTRAINDICATIONS).

Hypersensitivity Reactions

There have been postmarketing reports of hypersensitivity reactions with haloperidol. These include anaphylactic reaction, angioedema, dermatitis exfoliative, hypersensitivity vasculitis, rash, urticaria, face edema, laryngeal edema, bronchospasm, and laryngospasm (see ADVERSE REACTIONS). Haloperidol decanoate is contraindicated in patients with hypersensitivity to this drug (see CONTRAINDICATIONS).

Falls

Motor instability, somnolence, and orthostatic hypotension have been reported with the use of antipsychotics, including haloperidol decanoate, which may lead to falls and, consequently, fractures or other fall-related injuries. For patients, particularly the elderly, with diseases, conditions, or medications that could exacerbate these effects, assess the risk of falls when initiating antipsychotic treatment and recurrently during treatment.

Combined Use of Haloperidol and Lithium

An encephalopathic syndrome (characterized by weakness, lethargy, fever, tremulousness and confusion, extrapyramidal symptoms, leukocytosis, elevated serum enzymes, BUN, and fasting blood sugar) followed by irreversible brain damage has occurred in a few patients treated with lithium plus haloperidol. A causal relationship between these events and the concomitant administration of lithium and haloperidol has not been established; however, patients receiving such combined therapy should be monitored closely for early evidence of neurological toxicity and treatment discontinued promptly if such signs appear.

General

A number of cases of bronchopneumonia, some fatal, have followed the use of antipsychotic drugs, including haloperidol. It has been postulated that lethargy and decreased sensation of thirst due to central inhibition may lead to dehydration,

hemoconcentration and reduced pulmonary ventilation. Therefore, if the above signs and symptoms appear, especially in the elderly, the physician should institute remedial therapy promptly.

Although not reported with haloperidol, decreased serum cholesterol and/or cutaneous and ocular changes have been reported in patients receiving chemically-related drugs.

PRECAUTIONS

Leukopenia, Neutropenia, and Agranulocytosis

Class Effect: In clinical trial and/or postmarketing experience, events of leukopenia/neutropenia have been reported temporally related to antipsychotic agents, including haloperidol decanoate. Agranulocytosis has also been reported.

Possible risk factors for leukopenia/neutropenia include pre-existing low white blood cell count (WBC) and history of drug-induced leukopenia/neutropenia. Patients with a history of a clinically significant low WBC or a drug-induced leukopenia/neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and discontinuation of haloperidol decanoate should be considered at the first sign of a clinically significant decline in WBC in the absence of other causative factors.

Patients with clinically significant neutropenia should be carefully monitored for fever or other symptoms or signs of infection and treated promptly if such symptoms or signs occur. Patients with severe neutropenia (absolute neutrophil count $<1000/mm^3$) should discontinue haloperidol decanoate and have their WBC followed until recovery.

Other

Haloperidol decanoate injection, 50 mg/mL and haloperidol decanoate injection, 100 mg/mL should be administered cautiously to patients:

- with severe cardiovascular disorders, because of the possibility of transient hypotension and/or precipitation of anginal pain. Should hypotension occur and a vasopressor be required, epinephrine must not be used since haloperidol may block its vasopressor activity, and paradoxical further lowering of the blood pressure may occur. Instead, metaraminol, phenylephrine or norepinephrine should be used.
- receiving anticonvulsant medications, with a history of seizures, or with EEG abnormalities, because haloperidol may lower the convulsive threshold. If indicated, adequate anticonvulsant therapy should be concomitantly maintained.
- with known allergies, or with a history of allergic reactions to drugs.
- receiving anticoagulants, since an isolated instance of interference occurred with the effects of one anticoagulant (phenindione).

Haloperidol may impair the antiparkinson effects of levodopa and other dopamine agonists. If concomitant antiparkinson medication is required, it may have to be continued after haloperidol decanoate injection, 50 mg/mL or haloperidol decanoate injection, 100 mg/mL is discontinued because of the prolonged action of haloperidol decanoate. If both drugs are discontinued simultaneously, extrapyramidal symptoms may occur. The physician should keep in mind the possible increase in intraocular pressure when anticholinergic drugs, including antiparkinson agents, are administered concomitantly with haloperidol decanoate.

When haloperidol decanoate is used to control mania in cyclic disorders, there may be a rapid mood swing to depression.

Severe neurotoxicity (rigidity, inability to walk or talk) may occur in patients with thyrotoxicosis who are also receiving antipsychotic medication, including haloperidol.

Information for patients

Haloperidol decanoate may impair the mental and/or physical abilities required for the performance of hazardous tasks such as operating machinery or driving a motor vehicle. The ambulatory patient should be warned accordingly.

The use of alcohol with this drug should be avoided due to possible additive effects and hypotension.

Drug Interactions

Drug-drug interactions can be pharmacodynamic (combined pharmacologic e ects) or pharmacokinetic (alteration of plasma levels). The risks of using haloperidol in combination with other drugs have been evaluated as described below.

Pharmacodynamic Interactions

Since QTc interval-prolongation has been observed during Haloperidol treatment, caution is advised when prescribing to a patient with QT-prolongation conditions or to patients receiving medications known to prolong the QTc-interval (see WARNINGS, Cardiovascular Eff ects). Examples include (but are not limited to): Class 1A antiarrhythmics (e.g., procainamide, quinidine, disopyramide); Class 3 antiarrhythmics (e.g., amiodarone, sotalol); and other drugs such as citalopram, erythromycin, levofloxacin, methadone, and ziprasidone.

Caution is advised when haloperidol decanoate is used in combination with drugs known to cause electrolyte imbalance (e.g., diuretics or corticosteroids) because hypokalemia, hypomagnesemia, and hypocalcemia are risk factors for QT prolongation.

As with other antipsychotic agents, it should be noted that haloperidol may be capable of potentiating CNS depressants such as anesthetics, opioids, and alcohol.

Pharmacokinetic Interactions

Drugs that May Increase Haloperidol Plasma Concentrations

Haloperidol is metabolized by several routes. The major pathways are glucuronidation and ketone reduction. The cytochrome P450 enzyme system is also involved, particularly CYP3A4 and, to a lesser extent, CYP2D6. Inhibition of these routes of metabolism by another drug or a decrease in CYP2D6 enzyme may result in increased haloperidol concentrations. The e ffect of CYP3A4 inhibition and of decreased CYP2D6 enzyme activity may be additive.

The haloperidol plasma concentrations increased when a CYP3A4 and/or CYP2D6 inhibitor was coadministered with haloperidol.

Examples include:

CYP3A4 inhibitors – alprazolam; itraconazole, ketoconazole, nefazodone, ritonavir.

CYP2D6 inhibitors – chlorpromazine; promethazine; quinidine; paroxetine,

sertraline, venlafaxine.

Combined CYP3A4 and CYP2D6 inhibitors – fluoxetine, fluvoxamine; ritonavir.

Buspirone.

Increased haloperidol plasma concentrations may result in an increased risk of adverse events, including QTc interval prolongation (see WARNINGS – Cardiovascular E ects). Increases in QTc have been observed when haloperidol was given with a combination of the metabolic inhibitors ketoconazole (400 mg/day) and paroxetine (20 mg/day).

It is recommended that patients who take haloperidol concomitantly with such medicinal products be monitored for signs or symptoms of increased or prolonged pharmacologic eff ects of haloperidol, and the haloperidol decanoate dose be decreased as deemed necessary.

Valproate: Sodium valproate, a drug known to inhibit glucuronidation, does not aff ect haloperidol plasma concentrations.

Drugs that May Decrease Haloperidol Plasma Concentrations

Coadministration of haloperidol with potent enzyme inducers of CYP3A4 may gradually decrease the plasma concentrations of haloperidol to such an extent that efficacy may be reduced.

Examples include (but are not limited to: carbamazepine, phenobarbital, phenytoin, rifampin, St John's Wort (Hypericum, perforatum).

Rifampin: In a study of 12 patients with schizophrenia coadministered oral haloperidol and rifampin, plasma haloperidol levels were decreased by a mean of 70% and mean scores on the Brief Psychiatric Rating Scale were increased from baseline. In 5 other patients with schizophrenia treated with oral haloperidol and rifampin, discontinuation of rifampin produced a mean 3.3-fold increase in haloperidol concentrations.

Carbamazepine: In a study in 11 patients with schizophrenia coadministered haloperidol and increasing doses of carbamazepine, haloperidol plasma concentrations decreased linearly with increasing carbamazepine concentrations.

During combination treatment with inducers of CYP3A4, it is recommended that patients be monitored and the haloperidol decanoate dose increased or the dosage interval adjusted, as deemed necessary. After withdrawal of the CYP3A4 inducer, the concentration of haloperidol may gradually increase and therefore it may be necessary to reduce the dose of haloperidol decanoate, or adjust the dosage interval.

E ffect of Haloperidol on Other Drugs

Haloperidol is an inhibitor of CYP2D6. Plasma concentrations of CYP2D6 substrates (e,g. tricyclic antidepressants such as desipramine or imipramine) may increase when they are co-administered with haloperidol.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No mutagenic potential of haloperidol decanoate was found in the Ames Salmonella assay. Negative or inconsistent positive findings have been obtained in in vitro and in vivo studies of e ffects of short-acting haloperidol on chromosome structure and number. The available cytogenetic evidence is considered too inconsistent to be conclusive at this time.

Carcinogenicity studies using oral haloperidol were conducted in Wistar rats (dosed at up to 5 mg/kg daily for 24 months) and in Albino Swiss mice (dosed at up to 5 mg/kg daily for 18 months). In the rat study survival was reduced in all dose groups, decreasing the number of rats at risk for developing tumors. However, although a relatively greater number of rats survived to the end of the study in high-dose male and female groups, these animals did not have a greater incidence of tumors than control animals. Therefore, although not optimal, this study does suggest the absence of a haloperidol related increase in the incidence of neoplasia in rats at doses up to approximately 2.5 times the maximum recommended human dose (MRHD) of 20 mg/day based on mg/m2 body surface area.

In female mice there was a statistically significant increase in mammary gland neoplasia and total tumor incidence at doses approximately 0.3 and 1.2 times the MRHD based on mg/m2 body surface area and there was a statistically significant increase in pituitary gland neoplasia at approximately 1.2 times the MRHD. In male mice, no statistically significant di fferences in incidences of total tumors or specific tumor types were noted.

Antipsychotic drugs elevate prolactin levels; the elevation persists during chronic administration. Tissue culture experiments indicate that approximately one-third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with a previously detected breast cancer. Although disturbances such as galactorrhea, amenorrhea, gynecomastia, and impotence have been reported, the clinical significance of elevated serum prolactin levels is unknown for most patients.

An increase in mammary neoplasms has been found in rodents after chronic administration of antipsychotic drugs. Neither clinical studies nor epidemiologic studies conducted to date, however, have shown an association between chronic administration of these drugs and mammary tumorigenesis; the available evidence is considered too limited to be conclusive at this time.

Usage in Pregnancy

Rats or rabbits administered oral haloperidol at doses of 0.5 to 7.5 mg/kg, which are approximately 0.2 to 7 times the maximum recommended human dose (MRHD) of 20 mg/day based on mg/m2 body surface area, showed an increase in incidence of resorption, reduced fertility, delayed delivery and pup mortality. No fetal abnormalities were observed at these doses in rats or rabbits. Cleft palate has been observed in mice administered oral haloperidol at a dose of 0.5 mg/kg, which is approximately 0.1 times the MRHD based on mg/m2 body surface area.

There are no adequate and well-controlled studies in pregnant women. There are reports, however, of cases of limb malformations observed following maternal use of haloperidol along with other drugs which have suspected teratogenic potential during the first trimester of pregnancy. Causal relationships were not established with these cases. Since such experience does not exclude the possibility of fetal damage due to haloperidol, haloperidol decanoate should be used during pregnancy or in women likely to become pregnant only if the benefit clearly justifies a potential risk to the fetus.

Non-Teratogenic Eff ects

Neonates exposed to antipsychotic drugs (including haloperidol) during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms

following delivery. There have been reports of agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, and feeding disorder in these neonates. These complications have varied in severity; while in some cases symptoms have been self-limited, in other cases neonates have required intensive care unit support and prolonged hospitalization.

Haloperidol Decanoate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus**.**

Nursing Mothers

Since haloperidol is excreted in human breast milk, infants should not be nursed during drug treatment with haloperidol decanoate.

Pediatric Use

Safety and effectiveness of haloperidol decanoate in children have not been established.

Geriatric Use

Clinical studies of haloperidol did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not consistently identified differences in responses between the elderly and younger patients. However, the prevalence of tardive dyskinesia appears to be highest among the elderly, especially elderly women (see WARNINGS, Tardive dyskinesia). Also, the pharmacokinetics of haloperidol in geriatric patients generally warrants the use of lower doses (see DOSAGE AND ADMINISTRATION).

Use in Hepatic Impairment

Studies in patients with hepatic impairment have not been conducted. Haloperidol concentrations may increase in hepatically impaired patients, because it is primarily metabolized by the liver and protein binding may decrease.

ADVERSE REACTIONS

The following adverse reactions are discussed in more detail in other sections of the labeling:

- WARNINGS, Increased mortality in Elderly Patients with Dementia-Related Psychosis
- WARNINGS, Cardiovascular Effects
- WARNINGS, Tardive Dyskinesia
- WARNINGS, Neuroleptic Malignant Syndrome
- WARNINGS, Hypersensitivity Reactions
- WARNINGS, Falls
- WARNINGS, Combined Use of Haloperidol and Lithium
- WARNINGS, General
- PRECAUTIONS, Leukopenia, Neutropenia, and Agranulocytosis
- PRECAUTIONS, Other
- PRECAUTIONS, Usage in Pregnancy

Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug, and may not reflect the rates observed in practice.

The data described below reflect exposure to haloperidol in 410 patients who participated in 13 clinical trials with haloperidol decanoate (15 to 500 mg/month) in the treatment of schizophrenia or schizoaffective disorder. These clinical trials comprised:

- 1 double-blind, active comparator-controlled trial with fluphenazine decanoate.
- 2 trials comparing the decanoate formulation to oral haloperidol.
- 9 open-label trials.
- 1 dose-response trial.

The most common adverse reactions in haloperidol decanoate-treated patients in the double-blind, active comparator-controlled clinical trial with fluphenazine decanoate (≥5%) were: Parkinsonism, and oculogyric crisis.

Adverse Reactions Reported at ≥1% Incidence in a Double-Blind Active Comparator-Controlled Clinical Trial

Adverse reactions occurring in 1% of haloperidol decanoate-treated patients in a double-blind, clinical trial with the active comparator fluphenazine decanoate are shown in Table 1.

Table 1 . Adverse Reactions Reported by ≥1% of Haloperidol Decanoate-treated Patients in a Double- Blind Active Comparator-Controlled Clinical Trial with Fluphenazine Decanoate

System/Organ Class Adverse Reaction	**Haloperidol decanoate (n=36) %**	**Fluphenazine decanoate (n=36) %**
Gastrointestinal Disorders		
Abdominal pain	2.8	0
Nervous System Disorders		
Extrapyramidal disorder[a]:		
Parkinsonism	30.6	44.4
Oculogyric crisis	5.6	0
Akinesia	2.8	22.2
Akathisia	2.8	13.9
Tremor	2.8	0
Headache	2.8	0

[a] Precise incidence for extrapyramidal disorder cannot be determined; reporting rates of some individual symptoms of extrapyramidal disorder are lower for haloperidol decanoate than for the active comparator, but the terms are included here because the events are considered associated with the drug

Additional Adverse Reactions Reported in Double-Blind, Comparator, Open-Label and Dose-Response Clinical Trials

Additional adverse reactions that are listed below were reported by haloperidol

decanoate-treated patients in comparator, open-label, and dose-response clinical trials, or at <1% incidence in a double-blind, active comparator-controlled clinical trial with fluphenazine decanoate.

Cardiac Disorders: Tachycardia

Endocrine Disorders: Hyperprolactinemia

Eye Disorders: Vision blurred

Gastrointestinal Disorders: Constipation, Dry mouth, Salivary hypersecretion

General Disorders and Administration Site Conditions: Injection site reaction

Investigations: Weight increased

Musculoskeletal and Connective Tissue Disorders: Muscle rigidity

Nervous System Disorders: Dyskinesia, Dystonia, Cogwheel rigidity, Hypertonia, Masked Facies, Sedation, Somnolence

Reproductive System and Breast Disorders: Erectile dysfunction

Adverse Reactions Identified in Clinical Trials with Haloperidol (Non-Decanoate Formulations)

The adverse reactions listed below were identified with non-decanoate formulations, and reflect exposure to the active moiety haloperidol in the following:

- 284 patients who participated in 3 double-blind, placebo-controlled clinical trials with haloperidol (injection or oral formulation, 2 to 20 mg/day); two trials were in the treatment of schizophrenia and one in the treatment of bipolar disorder.
- 1295 patients who participated in 16 double-blind, active comparator-controlled clinical trials with haloperidol (injection or oral formulation, 1 to 45 mg/day) in the treatment of schizophrenia.

Musculoskeletal and Connective Tissue Disorders: Torticollis, Trismus, Muscle twitching

Nervous System Disorders: Neuroleptic malignant syndrome, Tardive dyskinesia, Bradykinesia, Hyperkinesia, Hypokinesia, Dizziness, Nystagmus

Psychiatric Disorders: Loss of libido, Restlessness

Reproductive System and Breast Disorders: Amenorrhea, Galactorrhea, Dysmenorrhea, Menorrhagia, Breast discomfort

Skin and Subcutaneous Tissue Disorders: Acneiform skin reactions

Vascular Disorders: Hypotension, Orthostatic hypotension

Postmarketing Experience

The following adverse reactions relating to the active moiety haloperidol have been identified during postapproval use of haloperidol or haloperidol decanoate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and Lymphatic System Disorders: Pancytopenia, Agranulocytosis, Thrombocytopenia, Leukopenia, Neutropenia

Cardiac Disorders: Ventricular fibrillation, Torsade de pointes, Ventricular tachycardia, Extrasystoles

Endocrine Disorders: Inappropriate antidiuretic hormone secretion

Gastrointestinal Disorders: Vomiting, Nausea

General Disorders and Administration Site Conditions: Sudden death, Face edema, Edema, Hyperthermia, Hypothermia, Injection site abscess

Hepatobiliary Disorders: Acute hepatic failure, Hepatitis, Cholestasis, Jaundice, Liver function test abnormal

Immune System Disorders: Anaphylactic reaction, Hypersensitivity

Investigations: Electrocardiogram QT prolonged, Weight decreased

Metabolic and Nutritional Disorders: Hypoglycemia

Musculoskeletal and Connective Tissue Disorders: Rhabdomyolysis

Nervous System Disorders: Convulsion, Opisthotonus, Tardive dystonia

Pregnancy, Puerperium and Perinatal Conditions: Drug withdrawal syndrome neonatal

Psychiatric Disorders: Agitation, Confusional state, Depression, Insomnia

Renal and Urinary Disorders: Urinary retention

Reproductive System and Breast Disorders: Priapism, Gynecomastia

Respiratory, Thoracic and Mediastinal Disorders: Laryngeal edema, Bronchospasm, Laryngospasm, Dyspnea

Skin and Subcutaneous Tissue Disorders: Angioedema, Dermatitis exfoliative, Hypersensitivity vasculitis, Photosensitivity reaction, Urticaria, Pruritis, Rash, Hyperhidrosis

OVERDOSAGE

While overdosage is less likely to occur with a parenteral than with an oral medication, information pertaining to haloperidol is presented, modified only to reflect the extended duration of action of haloperidol decanoate.

Manifestations

In general, the symptoms of overdosage would be an exaggeration of known pharmacologic effects and adverse reactions, the most prominent of which would be: 1) severe extrapyramidal reactions, 2) hypotension, or 3) sedation. The patient would appear comatose with respiratory depression and hypotension which could be severe enough to produce a shock-like state. The extrapyramidal reactions would be manifested by muscular weakness or rigidity and a generalized or localized tremor, as demonstrated by the akinetic or agitans types, respectively. With accidental overdosage, hypertension rather than hypotension occurred in a two-year old child. The risk of ECG changes associated with torsade de pointes should be considered.

(For further information regarding torsade de pointes, please refer to ADVERSE

REACTIONS.)

Treatment

Since there is no specic antidote, treatment is primarily supportive. Dialysis is not recommended in the treatment of overdose because it removes only very small amounts of haloperidol. A patent airway must be established by use of an oropharyngeal airway or endotracheal tube or, in prolonged cases of coma, by tracheostomy. Respiratory depression may be counteracted by artificial respiration and mechanical respirators. Hypotension and circulatory collapse may be counteracted by use of intravenous fluids, plasma, or concentrated albumin, and vasopressor agents such as metaraminol, phenylephrine and norepinephrine. Epinephrine must not be used. In case of severe extrapyramidal reactions, antiparkinson medication should be administered, and should be continued for several weeks, and then withdrawn gradually as extrapyramidal symptoms may emerge. ECG and vital signs should be monitored especially for signs of QTc-interval prolongation or dysrhythmias and monitoring should continue until the ECG is normal. Severe arrhythmias should be treated with appropriate anti-arrhythmic measures.

In case of an overdose, consult a Certified Poison Control Center (1-800-222-1222).

DOSAGE AND ADMINISTRATION

Haloperidol decanoate injection, 50 mg (base)/mL and haloperidol decanoate injection, 100 mg (base)/mL should be administered by deep intramuscular injection. A 21 gauge needle is recommended. The maximum volume per injection site should not exceed 3 mL. DO NOT ADMINISTER INTRAVENOUSLY.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

Haloperidol decanoate injection, 50 mg (base)/mL and haloperidol decanoate injection, 100 mg (base)/mL are intended for use in schizophrenic patients who require prolonged parenteral antipsychotic therapy. These patients must be previously stabilized on antipsychotic medication before considering a conversion to haloperidol decanoate, USP. Furthermore, it is recommended that patients being considered for haloperidol decanoate, USP therapy have been treated with, and tolerate well, short-acting haloperidol, USP in order to reduce the possibility of an unexpected adverse sensitivity to haloperidol, USP. Close clinical supervision is required during the initial period of dose adjustment in order to minimize the risk of overdosage or reappearance of psychotic symptoms before the next injection. During dose adjustment or episodes of exacerbation of symptoms of schizophrenia, haloperidol decanoate, USP therapy can be supplemented with short-acting forms of haloperidol, USP.

The dose of haloperidol decanoate injection, 50 mg (base)/mL or haloperidol decanoate injection, 100 mg (base)/mL should be expressed in terms of its haloperidol, USP content. The starting dose of haloperidol decanoate, USP should be based on the patient's age, clinical history, physical condition, and response to previous antipsychotic therapy. The preferred approach to determining the minimum effective dose is to begin with lower initial doses and to adjust the dose upward as needed. For patients previously maintained on low doses of antipsychotics (e.g. up to the equivalent of 10 mg/day oral haloperidol), it is recommended that the initial dose of haloperidol decanoate, USP be 10-

15 times the previous daily dose in oral haloperidol equivalents; limited clinical experience suggests that lower initial doses may be adequate.

Initial Therapy

Conversion from oral haloperidol to haloperidol decanoate, USP can be achieved by using an initial dose of haloperidol decanoate, USP that is 10 to 20 times the previous daily dose in oral haloperidol equivalents.

In patients who are elderly, debilitated, or stable on low doses of oral haloperidol (e.g. up to the equivalent of 10 mg/day oral haloperidol), a range of 10 to 15 times the previous daily dose in oral haloperidol equivalents is appropriate for initial conversion.

In patients previously maintained on higher doses of antipsychotics for whom a low dose approach risks recurrence of psychiatric decompensation and in patients whose long-term use of haloperidol, USP has resulted in a tolerance to the drug, 20 times the previous daily dose in oral haloperidol equivalents should be considered for initial conversion, with downward titration on succeeding injections.

The initial dose of haloperidol decanoate, USP should not exceed 100 mg regardless of previous antipsychotic dose requirements. If, therefore, conversion requires more than 100 mg of haloperidol decanoate, USP as an initial dose, that dose should be administered in two injections, i.e. a maximum of 100 mg initially followed by the balance in 3 to 7 days.

Maintenance Therapy

The maintenance dosage of haloperidol decanoate, USP must be individualized with titration upward or downward based on therapeutic response. The usual maintenance range is 10 to 15 times the previous daily dose in oral haloperidol equivalents dependent on the clinical response of the patient.

HALOPERIDOL DECANOATE, USP DOSING RECOMMENDATIONS

Patients	Monthly 1st Month	Maintenance
Stabilized on low daily oral doses (up to 10 mg/day) Elderly or Debilitated	10-15 x Daily Oral Dose	10 -15 x Previous Daily Oral Dose
High dose Risk of relapse Tolerant to oral haloperidol	20 x Daily Oral Dose	10 -15 x Previous Daily Oral Dose

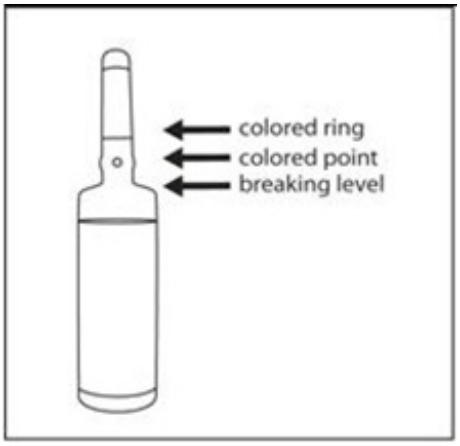
Close clinical supervision is required during initiation and stabilization of haloperidol decanoate, USP therapy. Haloperidol decanoate, USP is usually administered monthly or every 4 weeks. However, variation in patient response may dictate a need for adjustment of the dosing interval as well as the dose (see CLINICAL PHARMACOLOGY).

Clinical experience with haloperidol decanoate, USP at doses greater than 450 mg per month has been limited.

Instructions for Opening Ampule

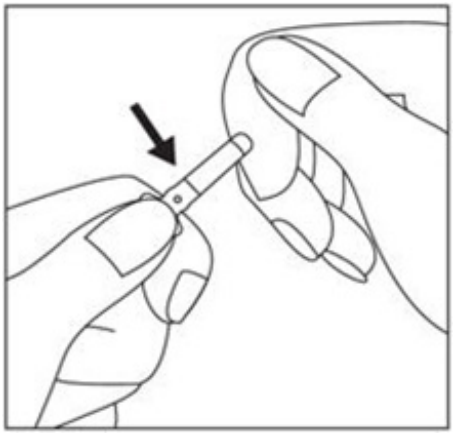
Step 1

1. Medication often rests in the top part of the ampule. Before breaking the ampule, lightly tap the top of the ampule with your finger until all fluid moves to the bottom portion of the ampule. The ampule has a colored ring(s) and colored point which aids in the placement of fingers while breaking the ampule.



Step 2

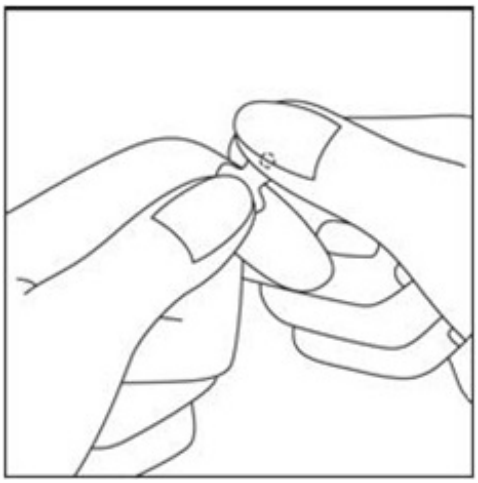
2. Hold the ampule between thumb and index finger with the colored point facing you.



Step 3

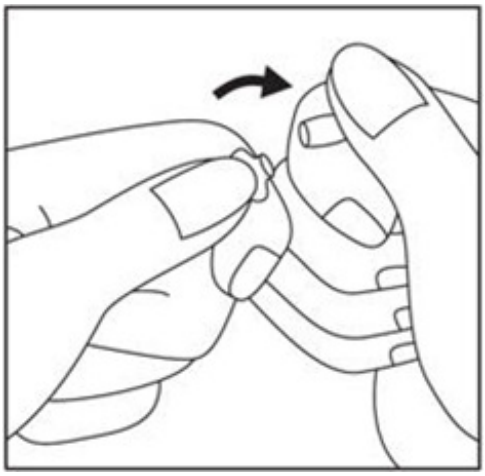
3. Position the index finger of the other hand to support the neck of the ampule.

Position the thumb so that it covers the colored point and is parallel to the colored ring(s).



Step 4

4. Keeping the thumb on the colored point and with the index fingers close together, apply firm pressure on the colored point in the direction of the arrow to snap the ampule open.



HOW SUPPLIED

Haloperidol Decanoate Injection is clear, slightly viscous, colorless to pink or amber solution supplied as follows:

NDC No.	Strength	Size
70069- **030** -03	50 mg (base)/mL	1 mL fill in 1 mL Ampule, in packages of 3
70069- **030** -05		1 mL fill in 1 mL Ampule, in packages of 5
70069- **031** -05	100 mg (base)/mL	1 mL fill in 1 mL Ampule, in packages of 5
70069- **381** -01	50 mg (base)/mL	1 mL fill in 2 mL Single-Dose Vial, in packages of 1
70069- **381** -10		1 mL fill in 2 mL Single-Dose Vial, in packages of 10
70069- **382** -05		5 mL fill in 5 mL Multiple-Dose Vial, in

70069- **382** -05		packages of 5
70069- **382** -01		5 mL fill in 5 mL Multiple-Dose Vial, in package of 1
70069- **383** -01	100 mg (base)/mL	1 mL fill in 2 mL Single-Dose Vial, in packages of 1
70069- **383** -05		1 mL fill in 2 mL Single-Dose Vial, in packages of 5
70069- **383** -10		1 mL fill in 2 mL Single-Dose Vial, in packages of 10
70069- **384** -05		5 mL fill in 5 mL Multiple-Dose Vial, in packages of 5
70069- **384** -01		5 mL fill in 5 mL Multiple-Dose Vial, in package of 1

Store at 20º to 25ºC (68º to 77ºF); excursions permitted between 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Do not refrigerate or freeze. Protect from Light.

Keep out of reach of children.

For Product Inquiry call 1-800-417-9175.

Manufactured for:

Somerset Therapeutics, LLC

Hollywood, FL 33024

Made in India

Code No.: KR/DRUGS/KTK/28/289/97

ST-HAD/P/04

Revised: November, 2020

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Container Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 1 mL Ampule

NDC 70069-**030**-01 **Rx only**

Haloperidol Decanoate Injection

50 mg (base)/mL

For Intramuscular Use Only

1 mL ampule

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD11/L/02

No Varnish Area
6 x 20mm

Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – Pack of 3's

No Varnish Area

21 x 77mm

Rx only

NDC 70069-**030**-03

Haloperidol Decanoate Injection

50 mg (base)/mL*

3 x 1- mL Ampules Sterile
For Intramuscular Use Only

*Each mL contains 50 mg haloperidol as 70.5 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].
Do not refrigerate or freeze.

PROTECT FROM LIGHT.
For dosage and other prescribing information, see accompanying product literature.
The dose of haloperidol decanoate 50 mg/mL should be expressed in terms of its haloperidol content.
Dispense in a light-resistant container as defined in the official compendium.

Somerset Therapeutics LLC

Haloperidol Decanoate Injection
50 mg (base)/mL*

INJECTION
3 x 1- mL ampules
For Intramuscular Use Only

Haloperidol Decanoate Injection
50 mg (base)/mL*

INJECTION
3 x 1- mL ampules
For Intramuscular Use Only

3 70069 030 03 5

For your convenience in recording use

Initial	Date
1	.....
2	.....
3	.....
4	.....
5	.....

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD11/C3/03

INJECTION
3 x 1- mL ampules
For Intramuscular Use Only

Haloperidol Decanoate Injection
50 mg (base)/mL*

Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – Pack of 5's

No Varnish Area

21 x 77mm

Rx only

NDC 70069-**030**-05

Haloperidol Decanoate Injection

50 mg (base)/mL*

5 x 1- mL Ampules Sterile

For Intramuscular Use Only

*Each mL contains 50 mg haloperidol as 70.5 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].

Do not refrigerate or freeze.

PROTECT FROM LIGHT.

For dosage and other prescribing information, see accompanying product literature.

The dose of haloperidol decanoate 50 mg/mL should be expressed in terms of its haloperidol content.

Dispense in a light-resistant container as defined in the official compendium.

Somerset Therapeutics LLC

Haloperidol Decanoate Injection

50 mg (base)/mL*

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

Haloperidol Decanoate Injection

50 mg (base)/mL*

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

3 7 0 0 6 9 0 3 0 0 5 1 9

For your convenience in recording use

	Initial	Date
1	.....	.....
2	.....	.....
3	.....	.....
4	.....	.....
5	.....	.....

Manufactured for:

Somerset Therapeutics, LLC

Hollywood, FL 33024

Customer Care # 1-800-417-9175

Made in India

Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD11/C5/01

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

Haloperidol Decanoate Injection

50 mg (base)/mL*

Container Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 1 mL Ampule

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – Pack of 5's

No Varnish Area

21 x 77mm

Rx only

NDC 70069-**031**-05

Haloperidol Decanoate Injection

100 mg (base)/mL*

5 x 1- mL Ampules Sterile

For Intramuscular Use Only

*Each mL contains 100 mg haloperidol as 141 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].

Do not refrigerate or freeze.

PROTECT FROM LIGHT.

For dosage and other prescribing information, see accompanying product literature.

The dose of haloperidol decanoate 100mg/mL should be expressed in terms of its haloperidol content.

Dispense in a light-resistant container as defined in the official compendium.

Somerset Therapeutics LLC

Haloperidol Decanoate Injection

100 mg (base)/mL*

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

Haloperidol Decanoate Injection

100 mg (base)/mL*

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

3 7 0 6 9 0 3 1 0 5 6

For your convenience in recording use

Initial	Date
1	.....
2	.....
3	.....
4	.....
5	.....

Manufactured for:

Somerset Therapeutics, LLC

Hollywood, FL 33024

Customer Care # 1-800-417-9175

Made in India

Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD21/C5/03

Haloperidol Decanoate Injection

100 mg (base)/mL*

INJECTION

5 x 1- mL ampules

For Intramuscular Use Only

Container Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 1 mL Single-Dose Vial

NDC 70069-**381**-01 **Rx only**

Haloperidol Decanoate Injection

50 mg (base)/mL

For Intramuscular Use Only

1 mL Single-Dose Vial

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

3 70069 38101 4

ST-HAD12/L/01

16 x 6mm

No Varnish Area

Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 1 x 1 mL Single-Dose Vial

3 70069 38101 4

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD12/C1/01

Rx only NDC 70069-**381**-01
1 x 1 mL Single-Dose Vial

Haloperidol Decanoate Injection

50 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

*Each mL contains 50 mg haloperidol as 70.5 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
The dose of haloperidol decanoate 50 mg/mL should be expressed in terms of its haloperidol content.
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].
Do not refrigerate or freeze.
PROTECT FROM LIGHT.
RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.
Usual dosage: See package insert.

Rx only NDC 70069-**381**-01
1 x 1 mL Single-Dose Vial

Haloperidol Decanoate Injection

50 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 10 x 1 mL Single-Dose Vials

No Varnish Area

87 x 35mm

*Each mL contains 50 mg haloperidol as 70.5 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
The dose of haloperidol decanoate 50 mg/mL should be expressed in terms of its haloperidol content.
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].
Do not refrigerate or freeze.
PROTECT FROM LIGHT. RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.
Usual dosage: See package insert.

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD12/C10/02

Rx only

NDC 70069-**381**-10
10 x 1 mL Single-Dose Vials

Haloperidol Decanoate Injection

50 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

Somerset Therapeutics LLC

Container Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 5 mL Multiple-Dose Vial

NDC 70069-**382**-01 **Rx only**

Haloperidol Decanoate Injection

250 mg (base)/5 mL

(50 mg [base]/mL)

For Intramuscular Use Only

5 mL Multiple-Dose Vial

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024

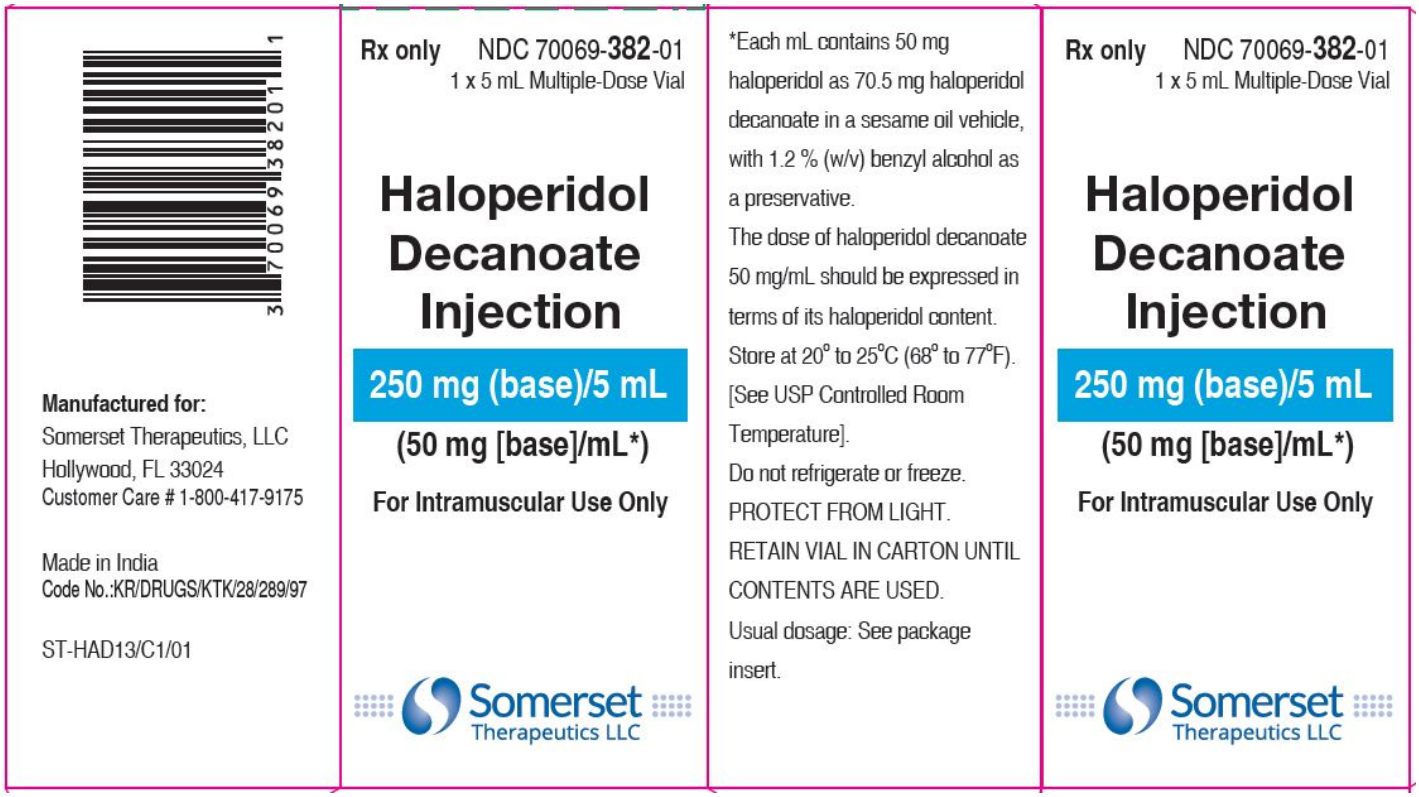
Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD13/L/00

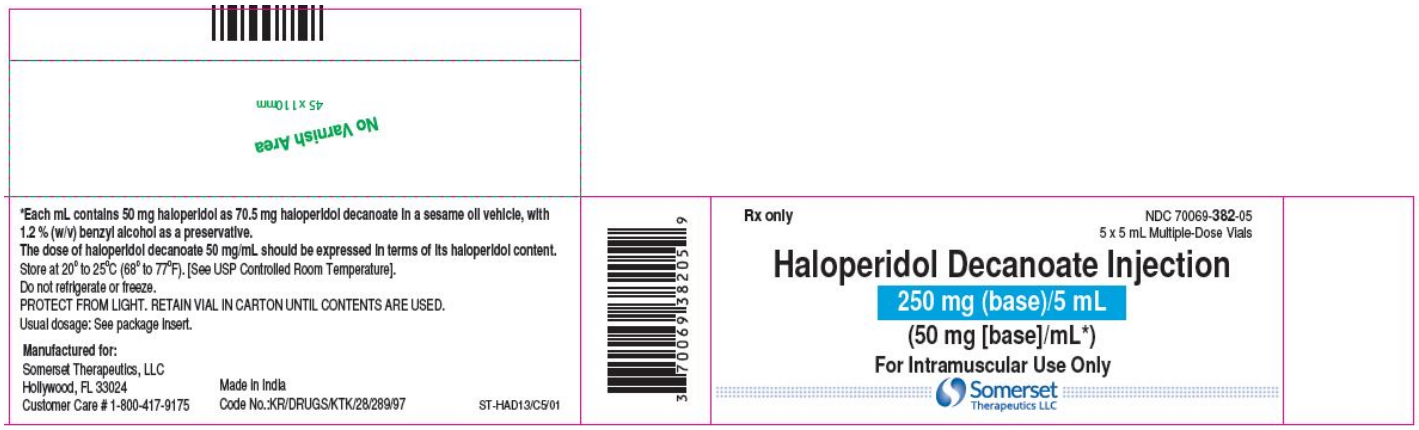
20 x 8 mm

No Varnish Area

Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 1 x 5 mL Multiple-Dose Vial



Carton Label (Haloperidol Decanoate Injection, 50 mg (base)/mL) – 5 x 5 mL Multiple-Dose Vials



Container Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 1 mL Single-Dose Vial

NDC 70069-**383**-01 **Rx only**

Haloperidol Decanoate Injection

100 mg (base)/mL

For Intramuscular Use Only

1 mL Single-Dose Vial

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD22/L/01

16 x 6mm

No Varnish Area

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 1 x 1 mL Single-Dose Vial

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD22/C1/01

Rx only NDC 70069-**383**-01
1 x 1 mL Single-Dose Vial

Haloperidol Decanoate Injection

100 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

*Each mL contains 100 mg haloperidol as 141 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
The dose of haloperidol decanoate 100mg/mL should be expressed in terms of its haloperidol content.
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].
Do not refrigerate or freeze.
PROTECT FROM LIGHT. RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.
Usual dosage: See package insert.

Rx only NDC 70069-**383**-01
1 x 1 mL Single-Dose Vial

Haloperidol Decanoate Injection

100 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 5 x 1 mL Single-Dose Vials

No Varnish Area

87 x 33mm

*Each mL contains 100 mg haloperidol as 141 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
The dose of haloperidol decanoate 100mg/mL should be expressed in terms of its haloperidol content.
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].
Do not refrigerate or freeze.
PROTECT FROM LIGHT. RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.
Usual dosage: See package insert.

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD22/C5/01

Rx only

NDC 70069-**383**-05
5 x 1 mL Single-Dose Vials

Haloperidol Decanoate Injection

100 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

Somerset Therapeutics LLC

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 10 x 1 mL Single-Dose Vials

No Varnish Area

87 x 33mm

*Each mL contains 100 mg haloperidol as 141 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.
The dose of haloperidol decanoate 100mg/mL should be expressed in terms of its haloperidol content.
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].
Do not refrigerate or freeze.
PROTECT FROM LIGHT. RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.
Usual dosage: See package insert.

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD22/C10/02

Rx only

NDC 70069-**383**-10
10 x 1 mL Single-Dose Vials

Haloperidol Decanoate Injection

100 mg (base)/mL*

For Intramuscular Use Only

Somerset Therapeutics LLC

Somerset Therapeutics LLC

Container Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 5 mL Multiple-Dose Vial

NDC 70069-**384**-01 **Rx only**

Haloperidol Decanoate Injection

500 mg (base)/5 mL

(100 mg [base]/mL)

For Intramuscular Use Only

5 mL Multiple-Dose Vial

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

3 70069 384015

ST-HAD23/L/00

20 x 8mm

No Varnish Area

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 1 x 5 mL Multiple-Dose Vial

3 70069 384015

Manufactured for:
Somerset Therapeutics, LLC
Hollywood, FL 33024
Customer Care # 1-800-417-9175

Made in India
Code No.:KR/DRUGS/KTK/28/289/97

ST-HAD23/C1/01

Rx only NDC 70069-**384**-01
1 x 5 mL Multiple-Dose Vial

Haloperidol Decanoate Injection

500 mg (base)/5 mL

(100 mg [base]/mL*)

For Intramuscular Use Only

Somerset Therapeutics LLC

*Each mL contains 100 mg haloperidol as 141 mg haloperidol decanoate in a sesame oil vehicle, with 1.2 % (w/v) benzyl alcohol as a preservative.

The dose of haloperidol decanoate 100mg/mL should be expressed in terms of its haloperidol content.

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

Do not refrigerate or freeze.

PROTECT FROM LIGHT. RETAIN VIAL IN CARTON UNTIL CONTENTS ARE USED.

Usual dosage: See package insert.

Rx only NDC 70069-**384**-01
1 x 5 mL Multiple-Dose Vial

Haloperidol Decanoate Injection

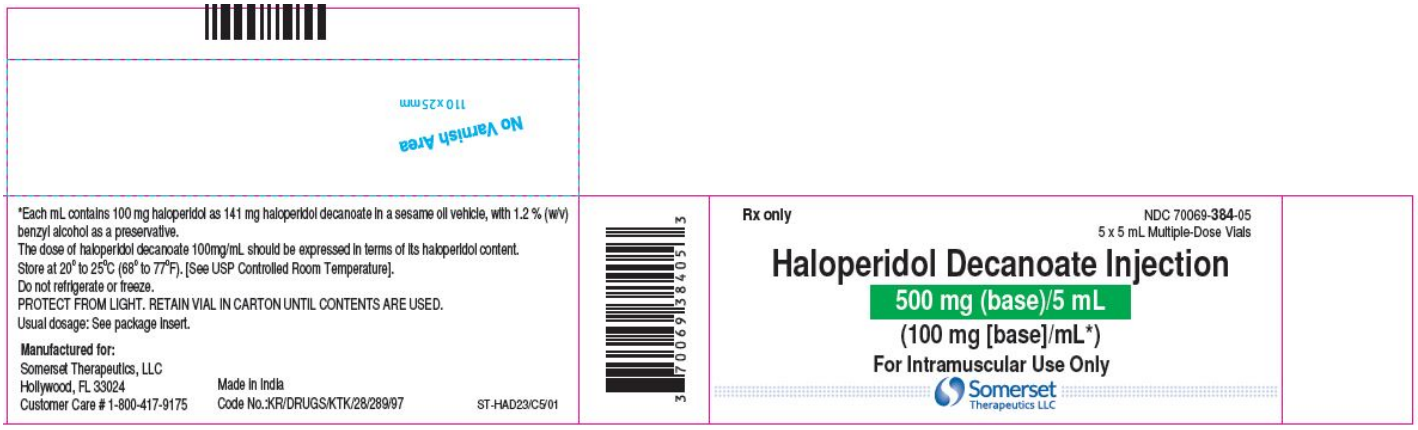
500 mg (base)/5 mL

(100 mg [base]/mL*)

For Intramuscular Use Only

Somerset Therapeutics LLC

Carton Label (Haloperidol Decanoate Injection, 100 mg (base)/mL) – 5 x 5 mL Multiple-Dose Vials



HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-030
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	50 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-030-05	5 in 1 CARTON	07/03/2018	
1	NDC:70069-030-01	1 mL in 1 AMPULE; Type 0: Not a Combination Product		
2	NDC:70069-030-	3 in 1 CARTON	07/03/2018	

2	03	5 in 1 CARTON	07/03/2018	
2	NDC:70069-030-01	1 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209101	07/03/2018	

HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-031
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-031-05	5 in 1 CARTON	07/03/2018	
1	NDC:70069-031-01	1 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209101	07/03/2018	

HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-381
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	50 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-381-01	1 in 1 CARTON	10/04/2019	
1		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
2	NDC:70069-381-10	10 in 1 CARTON	04/04/2019	
2		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209101	04/04/2019	

HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-382
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	50 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-382-01	1 in 1 CARTON	04/13/2019	
1		5 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		
2	NDC:70069-382-05	5 in 1 CARTON	04/04/2020	
2		5 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date

ANDA	ANDA209101	04/04/2019	

HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-383
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-383-05	5 in 1 CARTON	04/04/2019	
1		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
2	NDC:70069-383-10	10 in 1 CARTON	04/13/2019	
2		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
3	NDC:70069-383-01	1 in 1 CARTON	10/04/2019	
3		1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209101	04/04/2019	

HALOPERIDOL DECANOATE

haloperidol decanoate injection

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:70069-384
Route of Administration	INTRAMUSCULAR		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
HALOPERIDOL DECANOATE (UNII: AC20PJ4101) (HALOPERIDOL - UNII:J6292F8L3D)	HALOPERIDOL	100 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SESAME OIL (UNII: QX10HYY4QV)	

Product Characteristics

Color	YELLOW (clear, slightly viscous, colorless to pink)	**Score**	
Shape		**Size**	
Flavor		**Imprint Code**	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70069-384-01	1 in 1 CARTON	04/13/2019	
1		5 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		
2	NDC:70069-384-05	5 in 1 CARTON	04/04/2019	
2		5 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date

ANDA	ANDA209101	04/04/2019	

Labeler - Somerset Therapeutics, LLC (079947873)

Registrant - Somerset Therapeutics, LLC (079947873)

Establishment

Name	Address	ID/FEI	Business Operations
Wintac Limited		677236695	ANALYSIS(70069-030, 70069-031, 70069-381, 70069-382, 70069-383, 70069-384) , LABEL(70069-030, 70069-031, 70069-381, 70069-382, 70069-383, 70069-384) , PACK(70069-030, 70069-031, 70069-381, 70069-382, 70069-383, 70069-384) , MANUFACTURE(70069-030, 70069-031, 70069-381, 70069-382, 70069-383, 70069-384)

Revised: 3/2021 Somerset Therapeutics, LLC