

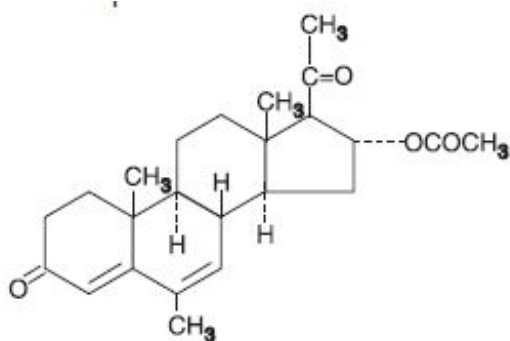
MEGESTROL ACETATE- megestrol acetate tablet Bryant Ranch Prepack

MEGESTROL ACETATE TABLETS, USP

Rx only

DESCRIPTION

Megestrol acetate is a synthetic, antineoplastic and progestational drug. Megestrol acetate is a white, crystalline solid chemically designated as 17(alpha)-(acetyloxy)-6-methylpregna-4,6-diene-3,20-dione. Solubility at 37°C in water is 2 mcg per mL, solubility in plasma is 24 mcg per mL. Its molecular weight is 384.51. The molecular formula is $C_{24}H_{32}O_4$ and the structural formula is represented as follows:



Megestrol acetate is supplied as tablets for oral administration containing 20 mg and 40 mg megestrol acetate.

Megestrol acetate tablets contain the following inactive ingredients: acacia spray dried, colloidal silicon dioxide, corn starch, di-calcium phosphate dihydrate powder, lactose hydrous impalpable, magnesium stearate and pregelatinized starch.

CLINICAL PHARMACOLOGY

While the precise mechanism by which megestrol produces its antineoplastic effects against endometrial carcinoma is unknown at the present time, inhibition of pituitary gonadotropin production and resultant decrease in estrogen secretion may be factors. There is evidence to suggest a local effect as a result of the marked changes brought about by the direct instillation of progestational agents into the endometrial cavity. The antineoplastic action of megestrol acetate on carcinoma of the breast is effected by modifying the action of other steroid hormones and by exerting a direct cytotoxic effect on tumor cells. In metastatic cancer, hormone receptors may be present in some tissues but not others. The receptor mechanism is a cyclic process whereby estrogen produced by the ovaries enters the target cell, forms a complex with cytoplasmic receptor and is transported into the cell nucleus. There it induces gene transcription and leads to the alteration of normal cell functions. Pharmacologic doses of megestrol acetate not only decrease the number of hormone-dependent human breast cancer

cells but also are capable of modifying and abolishing the stimulatory effects of estrogen on these cells. It has been suggested that progestins may inhibit in one of two ways: by interfering with either the stability, availability, or turnover of the estrogen receptor complex in its interaction with genes or in conjunction with the progestin receptor complex, by interacting directly with the genome to turn off specific estrogen-responsive genes.

There are several analytical methods used to estimate megestrol acetate plasma levels, including mass fragmentography, gas chromatography (GC), high pressure liquid chromatography (HPLC), and radioimmunoassay. The plasma levels by HPLC assay or radioimmunoassay methods are about one-sixth those obtained by the GC method. The plasma levels are dependent not only on the method used, but also on intestinal and hepatic inactivation of the drug, which may be affected by factors such as intestinal tract motility, intestinal bacteria, antibiotics administered, body weight, diet, and liver function.

Metabolites account for only 5% to 8% of the administered dose and are considered negligible. The major route of drug elimination in humans is the urine. When radiolabeled megestrol acetate was administered to humans in doses of 4 to 90 mg, the urinary excretion within 10 days ranged from 56.5% to 78.4% (mean 66.4%) and fecal excretion ranged from 7.7% to 30.3% (mean 19.8%). The total recovered radioactivity varied between 83.1% and 94.7% (mean 86.2%). Respiratory excretion as labeled carbon dioxide and fat storage may have accounted for at least part of the radioactivity not found in the urine and feces.

In normal male volunteers (n=23) who received 160 mg of megestrol acetate given as a 40 mg q.i.d. regimen, the oral absorption of megestrol acetate appeared to be variable. Plasma levels were assayed by a high pressure liquid chromatographic (HPLC) procedure. Peak drug levels for the first 40 mg dose ranged from 10 to 56 ng/mL (mean 27.6 ng/mL) and the times to peak concentrations ranged from 1.0 to 3.0 hours (mean 2.2 hours). Plasma elimination half-life ranged from 13.0 to 104.9 hours (mean 34.2 hours). The steady state plasma concentrations for a 40 mg q.i.d. regimen have not been established.

INDICATIONS AND USAGE

Megestrol acetate tablets are indicated for the palliative treatment of advanced carcinoma of the breast or endometrium (ie, recurrent, inoperable, or metastatic disease). It should not be used in lieu of currently accepted procedures such as surgery, radiation, or chemotherapy.

CONTRAINDICATIONS

History of hypersensitivity to megestrol acetate or any component of the formulation.

WARNINGS

Megestrol acetate may cause fetal harm when administered to a pregnant woman. Fertility and reproduction studies with high doses of megestrol acetate have shown a reversible feminizing effect on some male rat fetuses. There are no adequate and well-

controlled studies in pregnant women. If this drug is used during pregnancy, or if the patient becomes pregnant while taking (receiving) this drug, the patient should be apprised of the potential hazard to the fetus. Women of childbearing potential should be advised to avoid becoming pregnant.

The use of megestrol in other types of neoplastic disease is not recommended.

(See also **PRECAUTIONS, Carcinogenesis, Mutagenesis, Impairment of Fertility** section.)

The glucocorticoid activity of megestrol acetate tablets has not been fully evaluated. Clinical cases of new onset diabetes mellitus, exacerbation of pre-existing diabetes mellitus, and overt Cushing's syndrome have been reported in association with the chronic use of megestrol acetate. In addition, clinical cases of adrenal insufficiency have been observed in patients receiving or being withdrawn from chronic megestrol acetate therapy in the stressed and non-stressed state. Furthermore, adrenocorticotropin (ACTH) stimulation testing has revealed the frequent occurrence of asymptomatic pituitary-adrenal suppression in patients treated with chronic megestrol acetate therapy. Therefore, the possibility of adrenal insufficiency should be considered in any patient receiving or being withdrawn from chronic megestrol acetate therapy who presents with symptoms and/or signs suggestive of hypoadrenalism (e.g., hypotension, nausea, vomiting, dizziness, or weakness) in either the stressed or non-stressed state. Laboratory evaluation for adrenal insufficiency and consideration of replacement or stress doses of a rapidly acting glucocorticoid are strongly recommended in such patients. Failure to recognize inhibition of the hypothalamic-pituitary-adrenal axis may result in death. Finally, in patients who are receiving or being withdrawn from chronic megestrol acetate therapy, consideration should be given to the use of empiric therapy with stress doses of a rapidly acting glucocorticoid in conditions of stress or serious intercurrent illness. (e.g., surgery, infection).

PRECAUTIONS

General

Close surveillance is indicated for any patient treated for recurrent or metastatic cancer. Use with caution in patients with a history of thromboembolic disease.

Use in Diabetics

Exacerbation of pre-existing diabetes with increased insulin requirements has been reported in association with the use of megestrol.

Information for Patients

Patients using megestrol acetate should receive the following instructions:

1. This medication is to be used as directed by the physician.
2. Report any adverse reaction experiences while taking this medication.

Laboratory Tests

Breast malignancies in which estrogen and/or progesterone receptors are positive are more likely to respond to megestrol.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Administration of megestrol acetate to female dogs for up to 7 years is associated with an increased incidence of both benign and malignant tumors of the breast. Comparable studies in rats and studies in monkeys are not associated with an increased incidence of tumors. The relationship of the dog tumors to humans is unknown but should be considered in assessing the benefit-to-risk ratio when prescribing megestrol acetate and in surveillance of patients on therapy. (See **WARNINGS** section.)

Pregnancy

Pregnancy Category D. (See **WARNINGS** section.)

Nursing Mothers

Because of the potential for adverse effects on the newborn, nursing should be discontinued if megestrol is required for treatment of cancer.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Insufficient data from clinical studies of megestrol acetate tablets are available for patients 65 years of age and older to determine whether they respond differently than younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Megestrol acetate is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

ADVERSE REACTIONS

Weight Gain

Weight gain is a frequent side effect of megestrol. This gain has been associated with increased appetite and is not necessarily associated with fluid retention.

Thromboembolic Phenomena

Thromboembolic phenomena including thrombophlebitis and pulmonary embolism (in some cases fatal) have been reported.

Glucocorticoid Effects

(See **WARNINGS** section.)

Other Adverse Reactions

Heart failure, nausea and vomiting, edema, breakthrough menstrual bleeding, dyspnea, tumor flare (with or without hypercalcemia), hyperglycemia, glucose intolerance, alopecia, hypertension, carpal tunnel syndrome, mood changes, hot flashes, malaise, asthenia, lethargy, sweating and rash.

To report SUSPECTED ADVERSE REACTIONS, contact Strides Pharma Inc. at 1-877-244-9825 or go to www.strides.com or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

No serious unexpected side effects have resulted from studies involving megestrol acetate administered in dosages as high as 1600 mg/day. Oral administration of large, single doses of megestrol acetate (5 g/kg) did not produce toxic effects in mice. Megestrol acetate has not been tested for dialyzability; however, due to its low solubility it is postulated that this would not be an effective means of treating overdose.

DOSAGE AND ADMINISTRATION

Breast cancer: 160 mg/day (40 mg q.i.d.).

Endometrial carcinoma: 40 to 320 mg/day in divided doses.

At least 2 months of continuous treatment is considered an adequate period for determining the efficacy of megestrol acetate.

HOW SUPPLIED

NDC: 71335-2181-3: 15 TABLETs in a BOTTLE

NDC: 71335-2181-1: 30 TABLETs in a BOTTLE

NDC: 71335-2181-2: 100 TABLETs in a BOTTLE

SPECIAL HANDLING

Health Hazard Data

There is no threshold limit value established by OSHA, NIOSH, or ACGIH.

Exposure or "overdose" at levels approaching recommended dosing levels could result in side effects described above (see **WARNINGS** and **ADVERSE REACTIONS**). Women at risk of pregnancy should avoid such exposure.

Distributed by:

StridesPharma Inc.

East Brunswick, NJ 08816

Revised: 10/21

Megestrol Acetate 40mg Tablet



GTIN 00371335218119
 Lot 208820
 Exp 6/7/2025
 SN 0123456789

Each tablet contains: Megestrol Acetate, USP
 40 mg.

Keep this and all drugs out of the reach of
 children.

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

Protect from temperatures above 40°C
 (104°F).

Dispense in a tight, light-resistant container
 as defined in the USP.

NDC 71335-2181-1

Megestrol Acetate Tablets,
 USP

40 mg



Repackaged by:
 Bryant Ranch Prepack, Inc.
 Burbank, CA 91504 USA

Rx only
30 Tablets
 Manufactured by:
 Strides Pharma, Inc



MEGESTROL ACETATE

megestrol acetate tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71335-2181(NDC:64380- 159)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MEGESTROL ACETATE (UNII: TJ2M0FR8ES) (MEGESTROL - UNII:EA6LD1M70M)	MEGESTROL ACETATE	40 mg

Product Characteristics

Color	white	Score	2 pieces
Shape	ROUND	Size	10mm
Flavor		Imprint Code	Par;290
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71335- 2181-3	15 in 1 BOTTLE; Type 0: Not a Combination Product	10/25/2022	
2	NDC:71335- 2181-1	30 in 1 BOTTLE; Type 0: Not a Combination Product	10/25/2022	
3	NDC:71335- 2181-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	10/25/2022	

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
-----------	---------------------------------	-----------------	---------------

Category	Citation	Date	Date
ANDA	ANDA072423	04/04/2022	

Labeler - Bryant Ranch Prepack (171714327)

Registrant - Bryant Ranch Prepack (171714327)

Establishment

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	repack(71335-2181) , relabel(71335-2181)

Revised: 6/2023

Bryant Ranch Prepack