NEDOCROMIL SODIUM- nedocromil sodium solution/ drops
Akorn, Inc.

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Nedocromil Sodium Ophthalmic Solution, 2%
Sterile
Rx only

DESCRIPTION
Nedocromil Sodium Ophthalmic Solution, 2% is a clear, yellow, sterile solution for topical ophthalmic use.
Nedocromil sodium is represented by the following structural formula:

![Structural formula of nedocromil sodium]

\[
\text{Chemical name: } 4H\text{-Pyrano[3,2-g] quinoline-2, 8-dicarboxylic acid, 9-ethyl-6,9-dihydro- 4,6-dioxo-10-propyl-, disodium salt.}
\]

Each mL contains: Active: Nedocromil Sodium 20 mg/mL (2%); Preservative: Benzalkonium Chloride 0.01%; Inactives: Edetate Disodium 0.05%, Purified Water, and Sodium Chloride 0.5%. It has a pH of 4.0 to 5.5 and osmolality range of 270 to 330 mOsm/kg.

CLINICAL PHARMACOLOGY
Nedocromil sodium is a mast cell stabilizer. Nedocromil sodium inhibits the release of mediators from cells involved in hypersensitivity reactions. Decreased chemotaxis and decreased activation of eosinophils have also been demonstrated.

In vitro studies with adult human bronchoalveolar cells showed that nedocromil sodium inhibits histamine release from a population of mast cells having been defined as belonging to the mucosal subtype and inhibits beta-glucuronidase release from macrophages.

Pharmacokinetics and Bioavailability
Nedocromil sodium exhibits low systemic absorption. When administered as a 2% ophthalmic solution in adult human volunteers, less than 4% of the total dose was systemically absorbed following multiple dosing. Absorption is mainly through the nasolacrimal duct rather than through the conjunctiva. It is not metabolized and is eliminated primarily unchanged in urine (70%) and feces (30%).
INDICATIONS AND USAGE
Nedocromil Sodium Ophthalmic Solution is indicated for the treatment of itching associated with allergic conjunctivitis.

CONTRAINDICATIONS
Nedocromil Sodium Ophthalmic Solution is contraindicated in those patients who have shown hypersensitivity to nedocromil sodium or to any of the other ingredients.

PRECAUTIONS
Information for Patients
Patients should be advised to follow the patient instructions listed on the Information for Patients sheet. Users of contact lenses should refrain from wearing lenses while exhibiting the signs and symptoms of allergic conjunctivitis. Patients should be instructed to avoid allowing the tip of the dispensing container to contact the eye, surrounding structures, fingers, or any other surface in order to avoid contamination of the solution by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions.

Carcinogenesis, Mutagenesis, and Impairment of Fertility
A two-year inhalation carcinogenicity study of nedocromil sodium at a dose of 24 mg/kg/day (approximately 400 times the maximum recommended human daily ocular dose on a mg/kg basis) in Wistar rats showed no carcinogenic potential.

Nedocromil sodium showed no mutagenic potential in the Ames Salmonella/microsome plate assay, mitotic gene conversion in Saccharomyces cerevisiae, mouse lymphoma forward mutation and mouse micronucleus assays.

Reproduction and fertility studies in mice and rats showed no effects on male and female fertility at a subcutaneous dose of 100 mg/kg/day (more than 1600 times the maximum recommended human daily ocular dose).

Pregnancy
Teratogenic Effects: Pregnancy Category B
Reproduction studies performed in mice, rats and rabbits using a subcutaneous dose of 100 mg/kg/day (more than 1600 times the maximum human daily ocular dose on a mg/kg basis) revealed no evidence of teratogenicity or harm to the fetus due to nedocromil sodium. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, ophthalmic solution should be used during pregnancy only if clearly needed.

Nursing Mothers
After intravenous administration to lactating rats, nedocromil was excreted in milk. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when ophthalmic solution is administered to a nursing woman.

Pediatric Use
Safety and effectiveness in children below the age of 3 years have not been established.

Geriatric Use
No overall differences in safety or effectiveness have been observed between elderly and younger patients.

**ADVERSE REACTIONS**

The most frequently reported adverse experience was headache (~40%). Ocular burning, irritation and stinging, unpleasant taste, and nasal congestion have been reported to occur in 10 to 30% of patients. Other events occurring between 1 to 10% included asthma, conjunctivitis, eye redness, photophobia, and rhinitis.

Some of these events were similar to the underlying ocular disease being studied.

**DOSAGE AND ADMINISTRATION**

The recommended dosage is one or two drops in each eye twice a day. Nedocromil Ophthalmic Solution 2% should be used at regular intervals.

Treatment should be continued throughout the period of exposure (i.e., until the pollen season is over or until exposure to the offending allergen is terminated), even when symptoms are absent.

**HOW SUPPLIED**

Nedocromil Sodium Ophthalmic Solution, 2% is supplied sterile in opaque white LDPE plastic bottles with dropper tips and white polypropylene caps as follows:

5 mL in a 10 cc bottle - NDC 17478-066-10

**Storage:** Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Manufactured by:

**Akorn**
Lake Forest, IL 60045
NS00N
Revision: April 2009

**PHARMACIST – DETACH HERE AND GIVE INSTRUCTIONS TO PATIENTS**

**Information for the Patient**

Nedocromil Sodium Ophthalmic Solution, 2%

Sterile

It is important to use Nedocromil Sodium Ophthalmic Solution regularly, as directed by your physician.

1. Thoroughly wash your hands.
2. Remove safety seal (Figure 1).

![Figure 1](image)

3. Remove cap (Figure 2).
4. Sit or stand comfortably, with your head tilted back (Figure 3).

5. Open eyes, look up, and draw the lower lid of your eye down gently with your index finger (Figure 4).

6. Hold the Nedocromil Sodium Ophthalmic Solution bottle upside down. Place tip as close as possible to the lower eyelid without touching the tip to the eye, and gently squeeze out the prescribed number of drops (Figure 5).

7. Do not touch the eye or eyelid with the bottle tip.

8. Blink a few times to make sure the eye is covered with the solution.

9. Close your eye and remove any excess solution with a clean tissue.

10. Repeat process in the other eye.

SPECIAL TIPS

1. Avoid placing Nedocromil Sodium Ophthalmic Solution directly on the cornea (the area just over the pupil), because it is especially sensitive. You will find the administration of eye drops more comfortable if you place the drops just inside the lower eyelid as shown in Figure 5 below.

2. To avoid contamination of the solution, do not touch dropper tip to the eye, fingers, or any other surface. Replace bottle cap after use. It is recommended that any remaining contents be discarded after treatment period prescribed by your physician.

3. Store at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature]. Store in original
carton.
4. Keep bottle tightly closed and out of the reach of children.
5. Do not use with any other ocular medication unless directed by your physician. Do not wear contact lenses during treatment with Nedocromil Sodium Ophthalmic Solution.

Manufactured by:
**Akorn**
Lake Forest, IL 60045
Rev. 04/09

**Principal Display Panel Text for Container Label:**

NDC 17478-066-10
Nedocromil
Sodium
Ophthalmic
Solution
2%
Rx only 5 mL

**Principal Display Panel Text for Carton Label:**

NDC 17478-066-10
Nedocromil
Sodium
Ophthalmic
Solution
2%
5 mL
Rx only Akorn Logo
NEDOCROMIL SODIUM
nedocromil sodium solution/ drops

Product Information

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**Route of Administration**

- OPHTHALMIC

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<th>Basis of Strength</th>
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<td>1</td>
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<td>5 mL in 1 BOTTLE, DROPPER</td>
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**Labeler** - Akorn, Inc. (062649876)

**Establishment**

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Revised: 9/2012