

NEPAFENAC

Indications/Uses

Listed in Dosage.

Dosage/Direction for Use

Adult : Ophth Post-op ocular inflammation w/ cataract surgery Instillation starts 1 day before surgery, the day of surgery, and through the 1st 2 wk post-op. Instill 1 drop into the affected eye tid (0.1% susp) or once daily w/ an additional drop 30-120 min before surgery (0.3% susp). Macular oedema risk reduction following cataract surgery in diabetic patients Instillation starts 1 day before the surgery, the day of surgery, and up to 60 days post-op. As 0.1% susp: Instill 1 drop into the affected eye tid; w/ an additional drop 30-120 min before surgery.

Dosage Details

Ophthalmic

Postoperative ocular inflammation

Adult: Instillation starts 1 day before the cataract surgery, the day of surgery, and through the 1st 2 wk post-op period. As 0.1% susp: Instill 1 drop into the affected eye(s) tid. As 0.3% susp: Instill 1 drop into the affected eye(s) once daily; w/ an additional drop 30-120 min before surgery.

Child: ≥ 10 yr Same as adult dose.

Ophthalmic

Macular oedema risk reduction following cataract surgery in diabetic patients

Adult: Instillation starts 1 day before the cataract surgery, the day of surgery, and up to 60 days post-op period. As 0.1% susp: Instill 1 drop into the affected eye(s) tid; w/ an additional drop 30-120 min before surgery.

Contraindications

Hypersensitivity to nepafenac or other NSAIDs.

Special Precautions

Patient w/ complicated ocular surgeries, corneal denervation, corneal epithelial defects, DM, ocular surface disease (e.g. dry eye syndrome), rheumatoid arthritis, repeat ocular surgeries w/in a short period of time, predisposition to bleeding. Pregnancy and lactation.

Adverse Reactions

Significant: Punctate keratitis.

Nervous: Headache.

CV: HTN.

GI: Nausea, vomiting.

Resp: Sinusitis.

Ophthalmologic: Capsular opacity, decreased visual acuity, foreign body sensation, increased IOP, sticky sensation, conjunctival/corneal oedema, dry eye, lid margin crusting, discomfort, hyperaemia, ocular pain and pruritus, photophobia, tearing, vitreous detachment.

Pregnancy Category (US FDA)

Ophth: C

Patient Counseling Information

Avoid wearing contact lens during treatment. This drug may cause transient blurring of vision, if affected, do not drive or operate machinery.

Drug Interactions

Increased potential for healing problems w/ ophth corticosteroids.

Action

Description: Nepafenac is an NSAID and analgesic prodrug which penetrates the cornea after ocular application. It is converted by ocular hydrolases to amfenac, an active metabolite that decreases the production of prostaglandin by inhibiting prostaglandin H synthase or cyclooxygenase enzyme.

Pharmacokinetics:

Distribution: Plasma protein binding: 95.4%, primarily to albumin.

Metabolism: Undergoes rapid bioactivation by intraocular hydrolases to amfenac, an active metabolite.

Chemical Structure

Click on icon to see table/diagram/image

Storage

Store between 2-25°C. Protect from light.

MIMS Class

Ophthalmic Decongestants, Anesthetics, Anti-Inflammatories

ATC Classification

S01BC10 - nepafenac ; Belongs to the class of non-steroidal antiinflammatory agents. Used in the treatment of inflammation of the eye.