

SUMMARY OF THE PRODUCT CHARACTERISTICS

1 NAME OF THE MEDICINAL PRODUCT

ZADITEN 0.25 mg/ml, eye drops, solution in single-dose containers.

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

0.4 ml contains 0.138 mg ketotifen fumarate corresponding to 0.1 mg ketotifen.
Each drop contains 9.5 microgram ketotifen fumarate.

For excipients, see 6.1.

3 PHARMACEUTICAL FORM

Eye drops, solution in single-dose containers.
Clear, colourless to faintly yellow solution.

4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Symptomatic treatment of seasonal allergic conjunctivitis.

4.2 Posology and method of administration

Adults, elderly and children (age 3 and older): one drop of ZADITEN into the conjunctival sac twice a day. The contents of a single-dose container are sufficient for one administration into both eyes.

The contents remain sterile until the original closure is broken. To avoid contamination do not touch any surface with the tip of the container.

4.3 Contraindications

Hypersensitivity to ketotifen or to any of the excipients.

4.4 Special warnings and special precautions for use

No special warning.

4.5 Interaction with other medicinal products and other forms of interaction

If ZADITEN is used concomitantly with other eye medications there must be an interval of at least 5 minutes between the medications.

The use of oral dosage forms of ketotifen may potentiate the effects of CNS depressants, antihistamines and alcohol. Although this has not been observed with ZADITEN eye drops, the possibility of such effects cannot be excluded.

4.6 Pregnancy and lactation

There are no adequate data from the use of ketotifen eye drops in pregnant women. Animal studies using maternally toxic oral doses showed increased pre- and postnatal mortality, but

no teratogenicity. Systemic levels after ocular administration are much lower than after oral use. Caution should be exercised when prescribing to pregnant women.

Although animal data following oral administration show excretion into breast milk, topical administration to human is unlikely to produce detectable quantities in breast milk. ZADITEN eye drops can be used during lactation.

4.7 Effects on ability to drive and use machines

Any patient who experiences blurred vision or somnolence should not drive or operate machines.

4.8 Undesirable effects

At the recommended dose, the following undesirable effects have been reported:

Eye disorders

Common effects: Eye irritation, eye pain, punctate keratitis.

Uncommon effects: Vision blurred (during instillation), dry eye, eyelid disorder, conjunctivitis, photophobia, conjunctival haemorrhage.

Nervous system disorders

Uncommon effects: Headache

General disorders and administration site conditions

Uncommon effects: Somnolence

Skin and subcutaneous tissue disorders

Uncommon effects: Rash, eczema, urticaria

Gastrointestinal disorders

Uncommon effects: Dry mouth

Immune system disorders

Uncommon effects: Hypersensitivity

4.9 Overdose

No case of overdose has been reported.

Oral ingestion of the contents of a single-dose container would be equivalent to 0.1 mg of ketotifen which is 5% of a recommended oral daily dose for a 3 year old child. Clinical results have shown no serious signs or symptoms after oral ingestion of up to 20 mg of ketotifen.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Ophthalmologicals, other antiallergics

ATC code: S01GX08

Ketotifen is a histamine H₁-receptor antagonist. *In vivo* animal studies and *in vitro* studies suggest the additional activities of mast cell stabilisation and inhibition of infiltration, activation and degranulation of eosinophils.

5.2 Pharmacokinetic properties

In a pharmacokinetic study conducted in 18 healthy volunteers with ZADITEN eye drops, plasma levels of ketotifen after repeated ocular administration for 14 days were in most cases below the limit of quantitation (20 pg/ml).

After oral administration, ketotifen is eliminated biphasically, with an initial half life of 3 to 5 hours and a terminal half life of 21 hours. About 1% of the substance is excreted unchanged in the urine within 48 hours and 60 to 70% as metabolites. The main metabolite is a practically inactive ketotifen-N-glucuronide.

5.3 Preclinical safety data

Preclinical data reveal no special hazard which is considered relevant in connection with use of ZADITEN eye drops in humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential and toxicity to reproduction.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Glycerol (E422)
Sodium hydroxide (E524)
Water for injections

6.2 Incompatibilities

Not applicable.

6.3 Shelf-life

In unopened blister: 2 years.
Opened blister: 28 days.
Single-dose containers stored without blister in the outer carton: 3 months.

After opening, the contents of a single-dose container should be used immediately.

6.4 Special precautions for storage

Do not store above 25 °C.

6.5 Nature and content of container

The container is a transparent 0.4 ml LDPE single-dose container. Blocks of 5 single-dose containers are each packed in a blister made of PVC, aluminium, polyamide tray sealed with an aluminium foil cover and paper layer. Carton boxes of 5, 20, 30, 50 and 60 single-dose containers.

6.6 Instructions for use and handling, and disposal (if appropriate)

No special requirements.

7 MARKETING AUTHORISATION HOLDER

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8 MARKETING AUTHORISATION NUMBER(S)

15589

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

2000-06-30/2005-06-30

10 DATE OF REVISION OF THE TEXT

2006-06-21