Hydroxypropyl cellulose

IDENTIFICATION

Name	Hydroxypropyl cellulose
Accession Number	DB00840 (APRD01023)
Type	Small Molecule
Groups	Approved
Description	Hydroxypropyl cellulose is an ether of cellulose where some of the hydroxyl groups of the cellulose have been hydroxypropylated forming -OCH2CH(OH)CH3 groups. Lacrisertis a formulation of hydroxypropyl cellulose that is used for artificial tears. It is used to treat syndromes characterized by insufficient tear production (keratoconjunctivitis sicca), recurrent corneal erosions, decreased corneal sensitivity, exposure and neuroparalytic keratitis, and as a lubricant for artificial eyes. As a food additive, hydroxypropyl cellulose is used as a thickener and as an emulsion stabilizer.

Synonyms

- Cellulose hydroxypropyl ether
- Cellulose, 2-hydroxypropyl ether
- Hiprolosa
- Hydroxypropyl cellulose
- Hydroxypropyl cellulose (type H)
- Hydroxypropylcellulose
- Hyprolose
- Hyprolosum
- Modified cellulose

External IDs ⓘ E 463 / E-463 / Ins no.463 / INS-463

Prescription Products

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NAME	DOSAGE	STRENGTH	ROUTE	LABELLER	MARKETING START	MARKETING END	
Lacrisert	Insert	5 mg/1	Conjunctival	Merck Sharp & Dohme Limited	1981-06-01	2009-05-31	
Lacrisert	Pellet	5 mg/1	Ophthalmic	Aton Pharma, Inc.	1981-06-01	2016-09-21	
Lacrisert	Pellet	5 mg/1	Ophthalmic	Bauch & Lomb Incorporated	1981-06-01	Not applicable	

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Over the Counter Products

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NAME	DOSAGE	STRENGTH	ROUTE	LABELLER	MARKETING START	MARKETING END

NAME	DOSAGE	STRENGTH	ROUTE	LABELLER	MARKETING START	MARKETING END
				Valeant Llc		

Drugs

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‹ 1 ›

International/Other Brands	A-Gel (Fresenius Kabi)

Categories

- Artificial Tears
- Biomedical and Dental Materials
- Biopolymers
- Carbohydrates
- Compounds used in a research, industrial, or household setting
- Demulcent
- Demulcent Activity
- Glucans
- Macromolecular Substances
- Ophthalmics
- Polymers
- Polysaccharides

UNII	RFW2ET671P
CAS number	9004-64-2
Weight	Not Available
Chemical Formula	Not Available
InChI Key	Not Available
InChI	Not Available
IUPAC Name	Not Available
SMILES	Not Available

PHARMACOLOGY

Indication	Used to relieve dryness and irritation caused by reduced tear flow that occurs in certain eye diseases (keratoconjunctivitis sicca), recurrent corneal erosions, decreased corneal sensitivity, exposure and neuroparalytic keratitis, and as a lubricant for artificial eyes.

Associated Conditions

- Corneal Erosions
- Corneal Inflammation
- Dry Eye Syndrome (DES)
- Keratoconjunctivitis Sicca

Pharmacodynamics	Hydroxypropyl cellulose (cellulose, 2-hydroxypropyl ether) is a derivative of cellulose with both water solubility and organic solubility. Hydroxypropyl cellulose acts to stabilize and thicken the precorneal tear film and prolong the tear film breakup time which is usually accelerated in patients with dry eye states. Hydroxypropyl cellulose also acts to lubricate and protect the eye. Hydroxypropyl cellulose usually reduces the signs and symptoms resulting from moderate to severe dry eye syndromes, such as conjunctival hyperemia, corneal and conjunctival staining with rose bengal, exudation, itching, burning, foreign body sensation, smarting, photophobia, dryness and blurred or cloudy vision. Progressive visual deterioration which occurs in some patients may be retarded, halted, or sometimes reversed.
Mechanism of action	Hydroxypropyl cellulose is a derivative of cellulose that is soluble in both water and organic solvents. It is particularly good at trapping water and producing a film that serves as a barrier to water loss. Hydroxypropyl cellulose possesses good surface activity but does not gel as it forms