



LKT Laboratories, Inc.

Azelastine Hydrochloride

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Product Information

Product ID A9818

CAS No. 79307-93-0

Chemical Name 4-[(4-Chlorophenyl)methyl]-2-(hexahydro-1-methyl-1H-azepin-4-yl)-1(2H)-phthalazinone hydrochloride

Synonym Allergodil, Astelin, Azeptin, Optilast, Rhinolast

Formula C₂₂H₂₃N₃O · HCl

Formula Wt. 418.35

Melting Point 225-229 °C

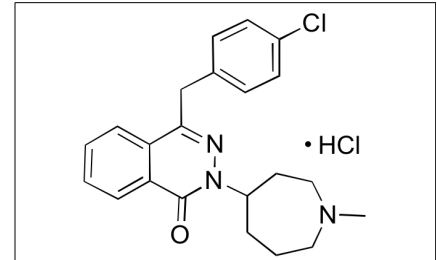
Purity ≥98%

Solubility Slightly soluble in ethanol, octanol or glycerine.

Store Temp Ambient

Ship Temp Ambient

Description Azelastine is a second generation antihistamine that inhibits H1 histamine receptors. Azelastine exhibits anti-allergic, anti-inflammatory, and anti-tussive activities and is clinically used to treat allergic rhinitis. Azelastine activates transient receptor potential vanilloid 1 (TRPV1) channels, inducing desensitization. In mast cells, azelastine inhibits production of TNF-α, IL-6, and IL-8 and suppresses activation of NF-κB. Additionally, this compound decreases capsaicin-induced cough in vivo.



Bulk quantities available upon request

Product ID	Size
A9818	100 mg
A9818	500 mg
A9818	1 g

References Singh U, Bernstein JA, Haar L, et al. Azelastine desensitization of transient receptor potential vanilloid 1: A potential mechanism explaining its therapeutic effect in nonallergic rhinitis. *Am J Rhinol Allergy*. 2014 May;28(3):215-24. PMID: 24980233.

Horak F, Zieglmayer UP. Azelastine nasal spray for the treatment of allergic and nonallergic rhinitis. *Expert Rev Clin Immunol*. 2009 Nov;5(6):659-69. PMID: 20477689.

Kempuraj D, Huang M, Kandere-Grzybowska K, et al. Azelastine inhibits secretion of IL-6, TNF-alpha and IL-8 as well as NF-kappaB activation and intracellular calcium ion levels in normal human mast cells. *Int Arch Allergy Immunol*. 2003 Nov;132(3):231-9. PMID: 14646384.

Ito N, Shioya T, Watanabe A, et al. Mechanism of the antitussive effect of azelastine in guinea pigs. *Arzneimittelforschung*. 2002;52(6):441-7. PMID: 12109044.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.