

(S)-Azelastine hydrochloride

Chemical Properties

CAS No.:	153408-27-6
Formula:	C ₂₂ H ₂₅ Cl ₂ N ₃ O
Molecular Weight:	418.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(S)-Azelastine hydrochloride, an antihistamine, has been shown to down-regulate H1R, M1R and M3R levels. It has also been shown to inhibit proliferation of HNEpC.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.390 mL	11.951 mL	23.903 mL
5 mM	0.478 mL	2.390 mL	4.781 mL
10 mM	0.239 mL	1.195 mL	2.390 mL
50 mM	0.048 mL	0.239 mL	0.478 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Karpishchenko SA, Kolesnikova OM. [The effectiveness of the combination of azelastine hydrochloride and mometasone furoate for the intranasal application in the patients presenting with seasonal allergic rhinitis]. Vestn Otorinolaringol. 2017;82(5):44-47. doi: 10.17116/otorino201782544-47. Russian. PubMed PMID: 29072663.
2. Liu SC, Lin CS, Chen SG, Chu YH, Lee FP, Lu HH, Wang HW. Effect of budesonide and azelastine on histamine signaling regulation in human nasal epithelial cells. Eur Arch Otorhinolaryngol. 2017 Feb;274(2):845-853. doi: 10.1007/s00405-016-4295-8. Epub 2016 Sep 13. PubMed PMID: 27623823.
3. Aksoy F, Senturk E, Doğan R, Veyseller B, Ozturan O, Gönüllü N, Yilmaz F. Effects of azelastine nasal spray on nasal and nasopharyngeal microflora. J Laryngol Otol. 2016 Jan;130(1):95-9. doi: 10.1017/S0022215115002959. Epub 2015 Oct 30. PubMed PMID: 26515526.

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