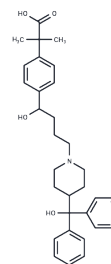


Fexofenadine

Chemical Properties

CAS No. :	83799-24-0
Formula:	C ₃₂ H ₃₉ N ₃ O ₄
Molecular Weight:	501.66
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fexofenadine (Carboxyterfenadine), an antihistamine pharmaceutical drug, is used to treat allergy symptoms, such as nasal congestion, hay fever, and urticaria. Compared to first-generation antihistamines, Fexofenadine is less able to pass the blood-brain barrier and cause sedation.
Targets(IC50)	Histamine Receptor

Solubility Information

Solubility	DMSO: 10.64 mg/mL (21.21 mM),Sonication is recommended. H ₂ O: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.06 mg/mL (2.11 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9934 mL	9.9669 mL	19.9338 mL
5 mM	0.3987 mL	1.9934 mL	3.9868 mL
10 mM	0.1993 mL	0.9967 mL	1.9934 mL
50 mM	0.0399 mL	0.1993 mL	0.3987 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Miura M, Uno T. Clinical pharmacokinetics of fexofenadine enantiomers. *Expert Opin Drug Metab Toxicol*. 2010 Jan; 6(1):69-74.
- Yan F, Gao F. An overview of potential inhibitors targeting non-structural proteins 3 (PLpro and Mac1) and 5 (3CLpro/Mpro) of SARS-CoV-2. *Computational and Structural Biotechnology Journal*. 2021, 19: 4868.
- Smith SM, Gums JG. Fexofenadine: biochemical, pharmacokinetic and pharmacodynamic properties and its unique role in allergic disorders. *Expert Opin Drug Metab Toxicol*. 2009 Jul;5(7):813-22.
- Miura M, Uno T. Clinical pharmacokinetics of fexofenadine enantiomers. *Expert Opin Drug Metab Toxicol*. 2010 Jan; 6(1):69-74. doi: 10.1517/17425250903382615. Review. PubMed PMID: 19947891.
- Compalati E, Baena-Cagnani R, Penagos M, Badellino H, Braido F, Gómez RM, Canonica GW, Baena-Cagnani CE. Systematic review on the efficacy of fexofenadine in seasonal allergic rhinitis: a meta-analysis of randomized, double-blind, placebo-controlled clinical trials. *Int Arch Allergy Immunol*. 2011;156(1):1-15. Review.

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