

Verlukast

Chemical Properties

CAS No. : 120443-16-5

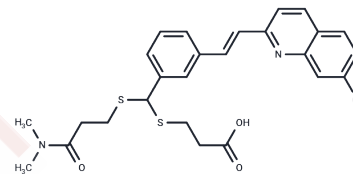
Formula: C₂₆H₂₇ClN₂O₃S₂

Molecular Weight: 515.09

Store at low temperature

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	Verlukast (MK-0679) is a selective, orally active leukotriene D ₄ receptor antagonist for use in bronchial asthma research.
Targets(IC ₅₀)	Leukotriene Receptor

Solubility Information

Solubility	DMSO: 4 mg/mL (7.77 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9414 mL	9.707 mL	19.4141 mL
5 mM	0.3883 mL	1.9414 mL	3.8828 mL
10 mM	0.1941 mL	0.9707 mL	1.9414 mL
50 mM	0.0388 mL	0.1941 mL	0.3883 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

- Nicoll-Griffith DA, et al. Verlukast (MK-0679) conjugation with glutathione by rat liver and kidney cytosols and excretion in the bile. *Drug Metab Dispos.* 1995 Oct;23(10):1085-93.
- Hsieh JY, Lin C, Matuszewski BK. Robotic sample preparation and high-performance liquid chromatographic analysis of verlukast in human plasma. *J Chromatogr B Biomed Appl.* 1994 Nov 18;661(2):307-12.
- Schwartz JI, et al. Oral pharmacokinetics and food interaction of the leukotriene D4 receptor antagonist verlukast. *Br J Clin Pharmacol.* 1993 Nov;36(5):464-6.
- Grossman SJ, et al. CYP1A1 specificity of Verlukast epoxidation in mice, rats, rhesus monkeys, and humans. *Drug Metab Dispos.* 1993 Nov-Dec;21(6):1029-36.

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