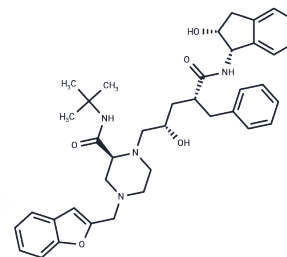


L 756423

Chemical Properties

CAS No. : 216863-66-0
 Formula: C₃₉H₄₈N₄O₅
 Molecular Weight: 652.82
 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	L 756423 (L756423) is a novel potent and selective and competitive HIV protease inhibitor with a K_i value of 0.049 nM for HIV-1 PR. L 756423 blocks the spread of HIV(IIIb)-infected MT25 lymphocytes at 0.50-0.1 nM and can be used for the study of Acquired Immunodeficiency Syndrome (AIDS).
Targets(IC50)	HIV Protease
In vitro	MK-944a (L-756,423) is selective and competitively inhibits HIV-1 PR with a $K(i)$ value of 0.049 nM. It stops the spread of the HIV(IIIb)-infected MT4 lymphoid cells at 25.0-50.0 nM, even in the presence of alpha(1) acid glycoprotein, human serum albumin, normal human serum, or fetal bovine serum.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (76.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5318 mL	7.6591 mL	15.3182 mL
5 mM	0.3064 mL	1.5318 mL	3.0636 mL
10 mM	0.1532 mL	0.7659 mL	1.5318 mL
50 mM	0.0306 mL	0.1532 mL	0.3064 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

Dorsey BD, et al. Identification of MK-944a: a second clinical candidate from the hydroxylaminepentanamide isostere series of HIV protease inhibitors. J Med Chem. 2000 Sep 7;43(18):3386-99.

Rose MJ, et al. Determination of L-756 423, a novel HIV protease inhibitor, in human plasma and urine using high-performance liquid chromatography with fluorescence detection. J Chromatogr B Biomed Sci Appl. 1999 Sep 24; 732(2):425-35.

Rose MJ, et al. High-throughput simultaneous determination of the HIV protease inhibitors indinavir and L-756423 in human plasma using semi-automated 96-well solid phase extraction and LC-MS/MS. J Pharm Biomed Anal. 2000 Dec 15;24(2):291-305.

Rose MJ, et al. Determination of L-756 423, a novel HIV protease inhibitor, in human plasma and urine using high-performance liquid chromatography with fluorescence detection. J Chromatogr B Biomed Sci Appl. 1999 Sep 24; 732(2):425-35.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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