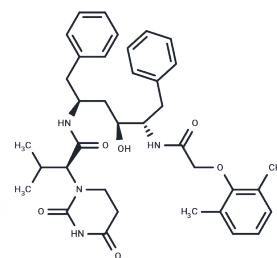


Lopinavir Metabolite M-1

Chemical Properties

CAS No. :	192725-39-6
Formula:	C37H46N4O6
Molecular Weight:	642.78
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	Lopinavir Metabolite M-1, an active metabolite of Lopinavir, effectively inhibits the HIV protease enzyme with a K_i value of 0.7 pM, demonstrating notable antiviral properties in [in vitro] studies.
Targets(IC50)	Others,HIV Protease
In vitro	Lopinavir Metabolite M-1 exhibits antiviral properties within MT-4 cells, achieving an EC50 (effective concentration 50) value of 1.413 μ M[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5557 mL	7.7787 mL	15.5574 mL
5 mM	0.3111 mL	1.5557 mL	3.1115 mL
10 mM	0.1556 mL	0.7779 mL	1.5557 mL
50 mM	0.0311 mL	0.1556 mL	0.3111 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

- Sham HL, et, al. Synthesis and antiviral activities of the major metabolites of the HIV protease inhibitor ABT-378 (Lopinavir). Bioorg Med Chem Lett. 2001 Jun 4; 11(11): 1351-3.
- Kumar GN, et, al. Potent inhibition of the cytochrome P-450 3A-mediated human liver microsomal metabolism of a novel HIV protease inhibitor by ritonavir: A positive drug-drug interaction. Drug Metab Dispos. 1999 Aug; 27(8): 902-8.

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