

R 82150

Chemical Properties

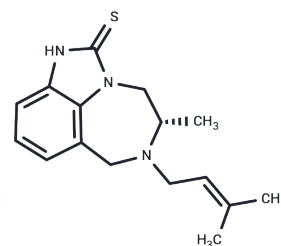
CAS No. : 126320-77-2

Formula: C₁₆H₂₁N₃S

Molecular Weight: 287.42

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	R 82150 is an antiviral and a member of the tetrahydroimidazo[4,5,1-jk]-[1,4]-benzodiazepin-2(1H)-thione family.
Targets(IC50)	Others,HIV Protease,Reverse Transcriptase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4792 mL	17.3961 mL	34.7923 mL
5 mM	0.6958 mL	3.4792 mL	6.9585 mL
10 mM	0.3479 mL	1.7396 mL	3.4792 mL
50 mM	0.0696 mL	0.3479 mL	0.6958 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

- Balzarini J, Pérez-Pérez MJ, San-Félix A, Camarasa MJ, Bathurst IC, Barr PJ, De Clercq E. Kinetics of inhibition of human immunodeficiency virus type 1 (HIV-1) reverse transcriptase by the novel HIV-1-specific nucleoside analogue [2',5'-bis-O-(tert-butyldimethylsilyl)-beta-D-ribofuranosyl]-3'-spiro-5''-(4''-amino-1'',2''-oxathiole-2'',2''-dioxide)thymine (TSAO-T). *J Biol Chem.* 1992 Jun 15;267(17):11831-8. PubMed PMID: 1376314.
- Debyser Z, Vandamme AM, Pauwels R, Baba M, Desmyter J, De Clercq E. Kinetics of inhibition of endogenous human immunodeficiency virus type 1 reverse transcription by 2',3'-dideoxynucleoside 5'-triphosphate, tetrahydroimidazo-[4,5,1-jk][1,4]-benzodiazepin-2(1H)-thione, and 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine derivatives. *J Biol Chem.* 1992 Jun 15;267(17):11769-76. PubMed PMID: 1376311.
- Debyser Z, Pauwels R, Andries K, De Clercq E. Specific HIV-1 reverse transcriptase inhibitors. *J Enzyme Inhib.* 1992;6(1):47-53. Review. PubMed PMID: 1285302.
- Frank KB, Noll GJ, Connell EV, Sim IS. Kinetic interaction of human immunodeficiency virus type 1 reverse transcriptase with the antiviral tetrahydroimidazo[4,5,1-jk]-[1,4]-benzodiazepine-2-(1H)-thione compound, R82150. *J Biol Chem.* 1991 Aug 5;266(22):14232-6. PubMed PMID: 1713579.

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