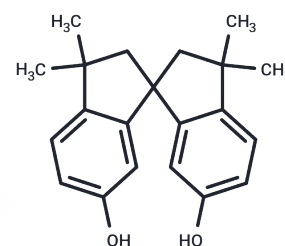


HIV-1 integrase inhibitor 8

Chemical Properties

CAS No. :	1568-80-5
Formula:	C ₂₁ H ₂₄ O ₂
Molecular Weight:	308.41
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	HIV-1 integrase inhibitor 8 is an inhibitor of HIV-1 integrase, a critical enzyme necessary for the integration step in HIV replication [1].
Targets(IC ₅₀)	HIV Protease
In vitro	HIV-1 integrase inhibitor 8 were tested against 3'-processing (TC) and strand-transfer (ST) activities in the presence of Mn ²⁺ as the cationic cofactor by gel assay, IC ₅₀ =275μM and 231μM, respectively. HIV-1 integrase inhibitor 8 were retested using Mg ²⁺ and the IC ₅₀ of against strand-transfer (ST) activities was 200μM. HIV-1 integrase inhibitor 8 inhibits MCV topoisomerase and DNA religation with IC ₅₀ of 500 μM and 200 μM, respectively. HIV-1 integrase inhibitor 8 induces cell cytotoxicity with LD ₅₀ of 20 μM in HeLa cells[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (145.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.48 mM),Sonication is recommended. <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	3.2424 mL	16.2122 mL	32.4244 mL
5 mM	0.6485 mL	3.2424 mL	6.4849 mL
10 mM	0.3242 mL	1.6212 mL	3.2424 mL
50 mM	0.0648 mL	0.3242 mL	0.6485 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

Molteni V, et al. A new class of HIV-1 integrase inhibitors: the 3,3,3', 3'-tetramethyl-1,1'-spirobi(indan)-5,5',6,6'-tetrol family. J Med Chem. 2000 May 18;43(10):2031-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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