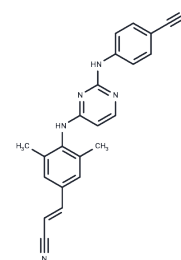


Rilpivirine

Chemical Properties

CAS No. :	500287-72-9
Formula:	C ₂₂ H ₁₈ N ₆
Molecular Weight:	366.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Rilpivirine (R278474) is a diarylpyrimidine derivative and reverse transcriptase inhibitor with antiviral activity against HIV-1 that is used in the treatment of HIV infections.
Targets(IC50)	HIV Protease,Reverse Transcriptase
In vitro	Rilpivirine, dissolved in PEG 400 and administered via intravenous injection at dosages of 4 mg/kg in rats and 1.25 mg/kg in dogs, exhibits half-lives of 4.4 hours and 31 hours, respectively.
In vivo	Rilpivirine demonstrates antiviral activity against both wild-type and selective point single and double HIV-1 mutants, with an effective concentration (EC ₅₀) ranging from 0.1 to 2 nM.

Solubility Information

Solubility	DMSO: 55 mg/mL (150.1 mM), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7291 mL	13.6455 mL	27.2911 mL
5 mM	0.5458 mL	2.7291 mL	5.4582 mL
10 mM	0.2729 mL	1.3646 mL	2.7291 mL
50 mM	0.0546 mL	0.2729 mL	0.5458 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.

Reference

Janssen PA, et al. J Med Chem. 2005, 48(6), 1901-1909.

Bao H, Yan J, Huang J, et al.Activation of endogenous retrovirus triggers microglial immuno-inflammation and

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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