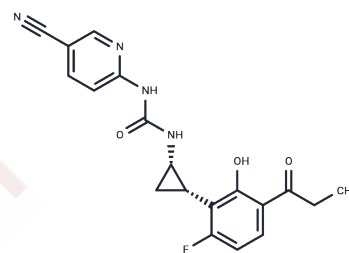


MIV-150

Chemical Properties

CAS No. :	231957-54-3
Formula:	C ₁₉ H ₁₇ FN ₄ O ₃
Molecular Weight:	368.36
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	MIV-150 is a nonnucleoside inhibitor of reverse transcriptase (NNRT). MIV-150 also blocking HIV-1 and HIV-2 infections (EC ₅₀ <1 nM against HIV-1/HIV-2MN).
Targets(IC ₅₀)	Others,HIV Protease
In vitro	MIV-150 demonstrates potent antiviral efficacy by inactivating free HIV virus with an EC ₅₀ of 0.004 µg/mL (or 0.01 µM), showcasing its high effectiveness against HIV, including strains resistant to other marketed antiretrovirals like Nevirapine, Delavirdine, and Efavirenz. Remarkably, resistance to MIV-150 develops slower compared to other anti-HIV drugs, as evident from in vitro studies where resistance to Nevirapine and Delavirdine emerged within 4 to 5 weeks, whereas resistance to MIV-150 took up to 45 weeks. Additionally, MIV-150's ability to protect target cells from infection was demonstrated through a syncytial assay, revealing an EC ₅₀ against HIV-1MN in CEM.SS cells below 1 nM, aligning with Medivir's findings.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7147 mL	13.5737 mL	27.1474 mL
5 mM	0.5429 mL	2.7147 mL	5.4295 mL
10 mM	0.2715 mL	1.3574 mL	2.7147 mL
50 mM	0.0543 mL	0.2715 mL	0.5429 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

Fernández-Romero JA, et al. Carrageenan/MIV-150 (PC-815), a combination microbicide. Sex Transm Dis. 2007 Jan; 34(1):9-14.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481