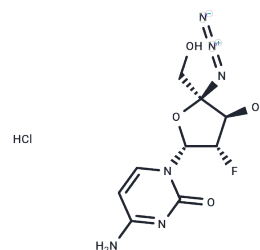


Azvudine hydrochloride

Chemical Properties

CAS No. :	1333126-31-0
Formula:	C ₉ H ₁₂ ClFN ₆ O ₄
Molecular Weight:	322.68
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	Azvudine hydrochloride (RO-0622) is a potent nucleoside reverse transcriptase inhibitor (NRTI) with strong antiviral effects against HIV, HBV, and HCV. It demonstrates highly potent inhibition of HIV-1 (EC ₅₀ ranging from 0.03 to 6.92 nM) and HIV-2 (EC ₅₀ ranging from 0.018 to 0.025 nM), and effectively inhibits NRTI-resistant viral strains.
Targets(IC ₅₀)	Antiviral,HCV Protease,HIV Protease,Reverse Transcriptase,HBV
In vitro	Azvudine hydrochloride exhibits potent inhibitory effects against HIV-1 (EC ₅₀ = 0.03-6.92 nM) and HIV-2 (EC ₅₀ = 0.018-0.025 nM). When used in combination with six approved anti-HIV drugs in C8166 and PBMC cells, it also demonstrates synergistic effects[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (309.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.099 mL	15.4952 mL	30.9905 mL
5 mM	0.6198 mL	3.099 mL	6.1981 mL
10 mM	0.3099 mL	1.5495 mL	3.099 mL
50 mM	0.062 mL	0.3099 mL	0.6198 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

Wang RR, et al. Azvudine, a novel nucleoside reverse transcriptase inhibitor showed good drug combination features and better inhibition on drug-resistant strains than lamivudine in vitro. PLoS One. 2014 Aug 21;9(8): e105617.

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