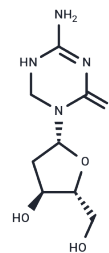


KP-1212

Chemical Properties

CAS No. : 114522-16-6
 Formula: C₈H₁₄N₄O₄
 Molecular Weight: 230.22
 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	KP-1212 is a synthetic nucleoside analogue that exerts antiviral activity by inducing lethal mutagenesis of the viral genome, thereby increasing mutation rates beyond viral viability thresholds, and has been shown to inhibit HIV growth, making it a valuable research compound for studying antiviral mechanisms, viral replication fidelity, and mutation-driven therapeutic strategies.
Targets(IC50)	Antiviral

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3437 mL	21.7184 mL	43.4367 mL
5 mM	0.8687 mL	4.3437 mL	8.6873 mL
10 mM	0.4344 mL	2.1718 mL	4.3437 mL
50 mM	0.0869 mL	0.4344 mL	0.8687 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

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- Harris KS, et al. KP-1212/1461, a nucleoside designed for the treatment of HIV by viral mutagenesis. *Antiviral Res*. 2005 Jul;67(1):1-9.
- Clay PG, et al. Safety, Tolerability, and Pharmacokinetics of KP-1461 in Phase I Clinical Studies: A Single Oral Dose Study in Non-HIV-Infected Adults, and a 14-Day Dose-Escalating Study in Highly Antiretroviral-Experienced HIV-Infected Adults. *J Int Assoc Physicians AIDS Care (Chic)*. 2011 Jul-Aug;10(4):232-8.
- Peng CS, et al. Two-dimensional IR spectroscopy of the anti-HIV agent KP1212 reveals protonated and neutral tautomers that influence pH-dependent mutagenicity. *Proc Natl Acad Sci U S A*. 2015 Mar 17;112(11):3229-34.

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