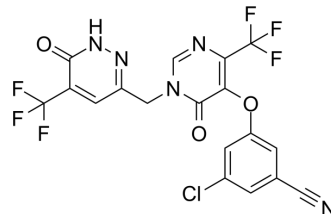


Ulonivirine

Cat. No.:	HY-147411	
CAS No.:	1591823-76-5	
Molecular Formula:	C ₁₈ H ₈ ClF ₆ N ₅ O ₃	
Molecular Weight:	491.73	
Target:	Reverse Transcriptase; HIV	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (508.41 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.0336 mL</td> <td>10.1682 mL</td> <td>20.3364 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4067 mL</td> <td>2.0336 mL</td> <td>4.0673 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2034 mL</td> <td>1.0168 mL</td> <td>2.0336 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.0336 mL	10.1682 mL	20.3364 mL	5 mM	0.4067 mL	2.0336 mL	4.0673 mL	10 mM	0.2034 mL	1.0168 mL	2.0336 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.23 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.23 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Ulonivirine (MK-8507) is an orally active non-nucleoside reverse transcriptase inhibitor with high antiviral activity. Ulonivirine can be used for the research of HIV-1 infection ^[1] .
IC₅₀ & Target	HIV-1

REFERENCES

[1]. Schürmann D, et al. Single Oral Doses of MK-8507, a Novel Non-Nucleoside Reverse Transcriptase Inhibitor, Suppress HIV-1 RNA for a Week. J Acquir Immune Defic Syndr. 2022 Feb 1;89(2):191-198.

Caution: Product has not been fully validated for medical applications. For research use only.

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