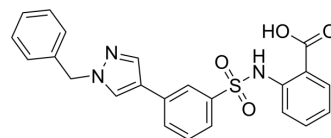


NITD-2

Cat. No.:	HY-134665		
CAS No.:	1197896-79-9		
Molecular Formula:	C ₂₃ H ₁₉ N ₃ O ₄ S		
Molecular Weight:	433.48		
Target:	DNA/RNA Synthesis; Flavivirus; Dengue virus		
Pathway:	Cell Cycle/DNA Damage; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (230.69 mM; Need ultrasonic)											
	<table border="1"> <tr> <td rowspan="2">Solvent</td> <td rowspan="2">Concentration</td> <td colspan="3">Mass</td> </tr> <tr> <td>1 mg</td> <td>5 mg</td> <td>10 mg</td> </tr> </table>	Solvent	Concentration	Mass			1 mg	5 mg	10 mg			
Solvent	Concentration			Mass								
		1 mg	5 mg	10 mg								
Preparing Stock Solutions												
	1 mM	2.3069 mL	11.5346 mL	23.0691 mL								
	5 mM	0.4614 mL	2.3069 mL	4.6138 mL								
	10 mM	0.2307 mL	1.1535 mL	2.3069 mL								
	Please refer to the solubility information to select the appropriate solvent.											
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.77 mM); Clear solution											

BIOLOGICAL ACTIVITY

Description	NITD-2, a dengue virus (DENV) polymerase inhibitor, inhibits the DENV RdRp-mediated RNA elongation. NITD-2 penetrates cell membrane poorly ^[1] .
In Vitro	NITD-2 inhibits de novo RNA synthesis ^[1] . NITD-2 exhibited no antiviral activity in cell culture resulted from the poor cell penetration ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pornwaratt Niyomrattanakit, et al. Inhibition of dengue virus polymerase by blocking of the RNA tunnel. J Virol. 2010 Jun;84(11):5678-86.

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

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