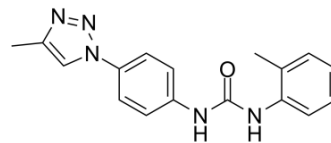


DDX3-IN-1

Cat. No.:	HY-121832		
CAS No.:	1919828-83-3		
Molecular Formula:	C ₁₇ H ₁₇ N ₅ O		
Molecular Weight:	307.35		
Target:	HIV; HCV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (406.70 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2536 mL	16.2681 mL	32.5362 mL
	5 mM	0.6507 mL	3.2536 mL	6.5072 mL
	10 mM	0.3254 mL	1.6268 mL	3.2536 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
 Solubility: ≥ 2.08 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
 Solubility: ≥ 2.08 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
 Solubility: ≥ 2.08 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DDX3-IN-1 (Compound 16f) is a DEAD-box polypeptide 3 (DDX3) inhibitor with CC₅₀s of 50 and 36 μM for HIV and HCV, respectively. Antiviral activity^[1].

REFERENCES

[1]. Brai A, et al. Human DDX3 protein is a valuable target to develop broad spectrum antiviral agents. Proc Natl Acad Sci U S A. 2016 May 10;113(19):5388-93.

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

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