

DDX3-IN-1

Chemical Properties

CAS No. : 1919828-83-3

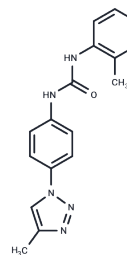
Formula: C₁₇H₁₇N₅O

Molecular Weight: 307.35

Store at low temperature

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	DDX3-IN-1 (Compound 16f) is a DDX3 (DEAD box polypeptide 3) inhibitor (IC ₅₀ >100 μM) with antiviral activity against HIV and HCV, with EC ₅₀ values of >50 and >36 μM, respectively.
Targets(IC ₅₀)	Antiviral,HCV Protease,HIV Protease,COX
In vitro	DDX3-IN-1 was found to be cytotoxic to HIV NL4-3 infected PBMCs and HCV replicon infected LucUbiNeo-ET cells with CC ₅₀ values of 50 μM and 36 μM, respectively.[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (325.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.01 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0651 mL	0.3254 mL	0.6507 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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