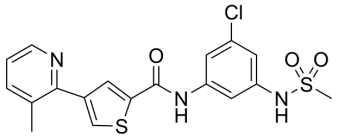
DHX9-IN-2

Cat. No.:	HY-156784
CAS No.:	2973395-71-8
Molecular Formula:	$C_{18}H_{16}ClN_3O_3S_2$
Molecular Weight:	421.92
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
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 (237.01 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3701 mL	11.8506 mL	23.7012 mL
5 mM	0.4740 mL	2.3701 mL	4.7402 mL
10 mM	0.2370 mL	1.1851 mL	2.3701 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.93 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.93 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

DHX9-IN-2 (example 31) is an inhibitor of ATP-dependent RNA helicase A (DHX9), with the IC_{50} of 0.0698 nM that has antitumor activity[1].

IC_{50} & Target

0.0698 nM (DHX9)[1]

REFERENCES

[1]. DANIELS Matthew H., et al. Preparation of imidazopyridines, thienopyrimidines, pyrrolopyrimidines and related heterocycles as inhibitors of RNA helicase DHX9 useful

in treatment of cancers. World Intellectual Property Organization, WO2023154519 A1 2023-08-17

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