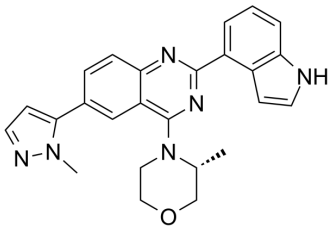
SKLB-197

Cat. No.:	HY-144217
CAS No.:	2713577-16-1
Molecular Formula:	$C_{25}H_{24}N_6O$
Molecular Weight:	424.5
Target:	ATM/ATR
Pathway:	Cell Cycle/DNA Damage; PI3K/Akt/mTOR
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 (235.57 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3557 mL	11.7786 mL	23.5571 mL
5 mM	0.4711 mL	2.3557 mL	4.7114 mL
10 mM	0.2356 mL	1.1779 mL	2.3557 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 (5.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SKLB-197 showed an IC_{50} value of 0.013 μM against ATR but very weak or no activity against other 402 protein kinases. It displayed potent antitumor activity against ATM-deficent tumors both in vitro and in vivo.

IC_{50} & Target

ATR
0.013 μM (IC_{50})

REFERENCES

[1]. Bin H,et al. Discovery of a potent and highly selective inhibitor of ataxia telangiectasia mutated and Rad3-Related (ATR) kinase: Structural activity relationship and antitumor activity both in vitro and in vivo. Eur J Med Chem. 2022 Feb 12;232:114187

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA