ATR-IN-4

Cat. No.: HY-145312

CAS No.: 2574545-45-0

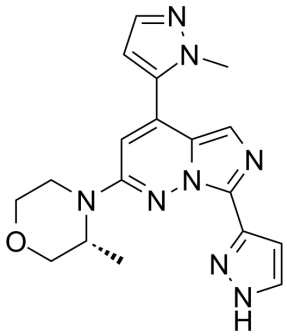
Molecular Formula: $C_{18}H_{20}N_8O$

Molecular Weight: 364.4

Target: ATM/ATR

Pathway: Cell Cycle/DNA Damage; PI3K/Akt/mTOR

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (68.61 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	2.7442 mL	13.7212 mL	27.4424 mL
	5 mM	0.5488 mL	2.7442 mL	5.4885 mL
	10 mM	0.2744 mL	1.3721 mL	2.7442 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 (6.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ATR-IN-4 is a potent ATR (Ataxia telangiectasia mutated gene Rad 3-associated kinase) inhibitor. ATR-IN-4 inhibits growth of human prostate cancer cells DU145 and human lung cancer cells NCI-H460 with IC_{50}s of 130.9 nM and 41 .33 nM, respectively. (Patent CN112142744A, compound 13)[1].

REFERENCES

[1]. Substituted fused heteroaromatic bicyclic compounds as kinase inhibitors and uses thereof. CN112142744A.

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

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