PARP14 inhibitor H10

Cat. No.: HY-117889

CAS No.: 2084811-68-5

Molecular Formula: $C_{24}H_{27}N_7O_7S$

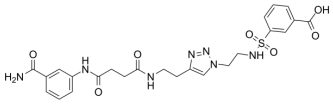
Molecular Weight: 557.58

Target: PARP; Apoptosis

Pathway: Cell Cycle/DNA Damage; Epigenetics; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (112.09 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7935 mL	8.9673 mL	17.9346 mL
	5 mM	0.3587 mL	1.7935 mL	3.5869 mL
	10 mM	0.1793 mL	0.8967 mL	1.7935 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: ≥ 2.08 mg/mL (3.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.73 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PARP14 inhibitor H10, compound H 10, is a selective inhibitor against PARP14 (IC_{50}=490 nM), over other PARPs (≈24 fold over PARP1). PARP14 inhibitor H10 induces caspase-3/7-mediated cell apoptosis[1].

IC_{50} & Target

PARP14	PARP1
490 nM (IC_{50})	

REFERENCES

[1]. Peng B, et al. Small Molecule Microarray Based Discovery of PARP14 Inhibitors. Angew Chem Int Ed Engl. 2017 Jan 2;56(1):248-253.

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