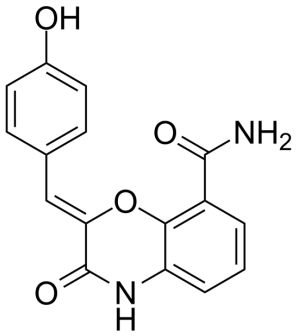
PARP1-IN-11

Cat. No.:	HY-147886
CAS No.:	2482484-87-5
Molecular Formula:	$C_{16}H_{12}N_2O_4$
Molecular Weight:	296.28
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
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 (337.52 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.3752 mL	16.8759 mL	33.7519 mL
5 mM	0.6750 mL	3.3752 mL	6.7504 mL
10 mM	0.3375 mL	1.6876 mL	3.3752 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.44 mM); Suspended solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PARP1-IN-11 (compound 49) is a potent PARP1 inhibitor with IC_{50} value of 0.082 μM. PARP1-IN-11 shows complete inhibition of PARP2 and substantially inhibits PARP3, TNKS1 and TNKS2[1].

IC_{50} & Target

PARP1	PARP2	TNKS1	TNKS2
0.082 μM (IC_{50})			

REFERENCES

[1]. Shao X, et al. Synthesis of 2,3-dihydrobenzo[b][1,4]dioxine-5-carboxamide and 3-oxo-3,4-dihydrobenzo[b][1,4]oxazine-8-carboxamide derivatives as PARP1 inhibitors. Bioorg Chem. 2020 Sep;102:104075.

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