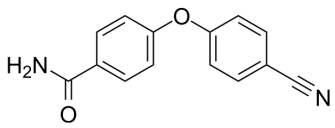
PARP10-IN-2

Cat. No.:	HY-148753
CAS No.:	1042780-52-8
Molecular Formula:	$C_{14}H_{10}N_2O_2$
Molecular Weight:	238.24
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1049.36 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.1974 mL	20.9872 mL	41.9745 mL
	5 mM	0.8395 mL	4.1974 mL	8.3949 mL
	10 mM	0.4197 mL	2.0987 mL	4.1974 mL

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

BIOLOGICAL ACTIVITY

Description

PARP10-IN-2 is a potent mono-ADP-ribosyltransferase PARP10 inhibitor with an IC_{50} of 3.64 μM for human PARP10. PARP10-IN-2 reveals potent inhibition on PARP2 and PARP15 with IC_{50}s of 27 μM and 11 μM for human PARP2 and human PARP15, respectively[1].

IC_{50} & Target

human PARP10 3.64 μM (IC_{50})	human PARP15 11 μM (IC_{50})	human PARP2 27 μM (IC_{50})	human PARP12 >10 μM (IC_{50})
human PARP16 >10 μM (IC_{50})	human PARP1 >100 μM (IC_{50})	human PARP3 >100 μM (IC_{50})	human PARP4 >100 μM (IC_{50})
human TNKS1 >100 μM (IC_{50})	human TNKS2 >100 μM (IC_{50})	human PARP14 >100 μM (IC_{50})	

In Vitro

PARP10-IN-2 (compound 10) has an IC_{50} of 1-2 μM by olony-formation assay (CFA) in HeLa-PARP10 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Patricia Korn, et al. Evaluation of 3- and 4-Phenoxybenzamides as Selective Inhibitors of the Mono-ADP-Ribosyltransferase PARP10. ChemistryOpen. 2021 Oct;10(10):939-948.

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