INO-1001

Cat. No.: HY-15045

CAS No.: 501364-82-5

Molecular Formula: $C_{23}H_{25}N_3O_4S$

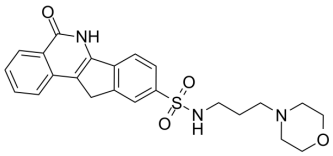
Molecular Weight: 439.53

Target: PARP

Pathway: Cell Cycle/DNA Damage; Epigenetics

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 : 31.25 mg/mL (71.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2752 mL	11.3758 mL	22.7516 mL
	5 mM	0.4550 mL	2.2752 mL	4.5503 mL
	10 mM	0.2275 mL	1.1376 mL	2.2752 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 (4.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

INO-1001 is a potent and selective poly (ADP-ribose) polymerase (PARP) inhibitor. INO-1001 is a potent enhancer of radiation sensitivity and enhances radiation-induced cell killing by interfering with DNA repair mechanisms, resulting in necrotic cell death[1]. INO-1001 has anti-tumor effects[2].

IC_{50} & Target

PARP

In Vitro

INO-1001 has an IC_{50} of 0.05 μM in Chinese hamster ovary AA8 (CHO) cells[1].

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

CUSTOMER VALIDATION

- J Virol. 2019 Aug 13;93(17):e00526-19.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Brock WA, et al. Radiosensitization of human and rodent cell lines by INO-1001, a novel inhibitor of poly(ADP-ribose) polymerase. Cancer Lett. 2004 Mar 18;205(2):155-60.

[2]. Mason KA, et al. INO-1001, a novel inhibitor of poly(ADP-ribose) polymerase, enhances tumor response to doxorubicin. Invest New Drugs. 2008 Feb;26(1):1-5. Epub 2007 Jul 13.

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