Amelparib

Cat. No.: HY-116218

CAS No.: 1227156-72-0

Molecular Formula: $C_{19}H_{25}N_3O_3$

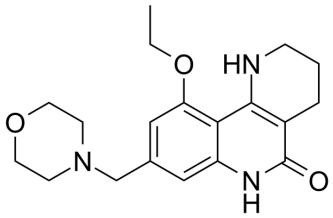
Molecular Weight: 343.42

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 (291.19 mM; ultrasonic and warming and adjust pH to 2 with 1M HCl and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9119 mL	14.5594 mL	29.1189 mL
	5 mM	0.5824 mL	2.9119 mL	5.8238 mL
	10 mM	0.2912 mL	1.4559 mL	2.9119 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: 5 mg/mL (14.56 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (14.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Amelparib is a potent, orally active, and water-soluble inhibitor of PARP-1. Amelparib inhibits PARP-1 activity (IC_{50} =18.5 nmol/L) and cellular PAR formation (IC_{50} =10.7 nmol/L) in the nanomolar range. Amelparib is a potential neuroprotective agent. Amelparib has the potential for the research of acute ischaemic stroke[1].

REFERENCES

[1]. Kim Y, et al. Neuroprotective effects of a novel poly (ADP-ribose) polymerase-1 inhibitor, JPI-289, in hypoxic rat cortical neurons. Clin Exp Pharmacol Physiol. 2017;44(6):671-679.

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

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