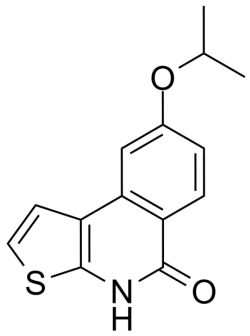
ART-IN-1

Cat. No.:	HY-143338
CAS No.:	2418014-98-7
Molecular Formula:	$C_{14}H_{13}NO_2S$
Molecular Weight:	259.32
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 (385.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8562 mL	19.2812 mL	38.5624 mL
	5 mM	0.7712 mL	3.8562 mL	7.7125 mL
	10 mM	0.3856 mL	1.9281 mL	3.8562 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: 2.5 mg/mL (9.64 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (9.64 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (9.64 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ART-IN-1 (compound 7) is a selective PARP inhibitor with IC_{50}s of 19, 22, 2.4, >100, 1.1 μM for PARP2, TNKS2, PARP10, PARP14, PARP15, respectively[1].

IC_{50} & Target

PARP15 1.1 μM (IC_{50})	PARP10 2.4 μM (IC_{50})	PARP2 19 μM (IC_{50})	TNKS2 22 μM (IC_{50})
PARP14 >100 μM (IC_{50})			

In Vitro	ART-IN-1 (compound 7) (0-100 μM) shows inhibition of PARP2, TNKS2, PARP10, PARP14, PARP15 with IC_{50}s of 19, 22, 2.4, >100, 1.1 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Maksimainen MM, et al. Analogs of TIQ-A as inhibitors of human mono-ADP-ribosylating PARPs. Bioorg Med Chem. 2021;52:116511.

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

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