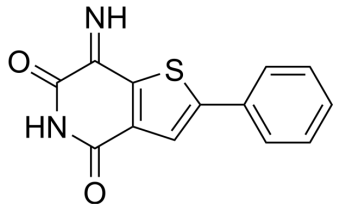
JMS-053

Cat. No.:	HY-135457
CAS No.:	1954650-11-3
Molecular Formula:	$C_{13}H_8N_2O_2S$
Molecular Weight:	256.28
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
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 : 10 mg/mL (39.02 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.9020 mL	19.5099 mL	39.0198 mL
	5 mM	0.7804 mL	3.9020 mL	7.8040 mL
	10 mM	0.3902 mL	1.9510 mL	3.9020 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: 1 mg/mL (3.90 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

JMS-053 is a potent, selective and reversible PTP4A inhibitor, with IC_{50}s of 29.1 nM, 48.0 nM, 34.7 nM, 92.6 nM, and 207.6 nM for PTP4A1, PTP4A2, PTP4A3, CDC25B, and DUSP3, respectively. JMS-053 can inhibit cancer cell migration and spheroid growth in vitro, attenuate in vivo ovarian tumor growth[1].

IC_{50} & Target

IC50: 29.1 nM (PTP4A1), 48.0 nM (PTP4A2), 34.7 nM (PTP4A3), 92.6 nM (CDC25B), 207.6 nM (DUSP3)[1]

REFERENCES

[1]. Lazo JS, et, al. Next-Generation Cell-Active Inhibitors of the Undrugged Oncogenic PTP4A3 Phosphatase. J Pharmacol Exp Ther. 2019 Dec;371(3):652-662.

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

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