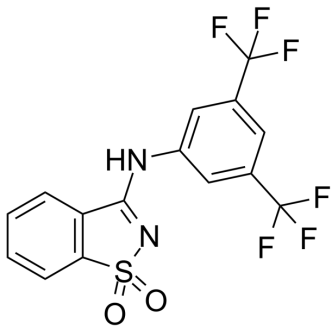
M1002

Cat. No.:	HY-139287
CAS No.:	823830-85-9
Molecular Formula:	$C_{15}H_8F_6N_2O_2S$
Molecular Weight:	394.29
Target:	HIF/HIF Prolyl-Hydroxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMF : 50 mg/mL (126.81 mM; Need ultrasonic)

DMSO : 50 mg/mL (126.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5362 mL	12.6810 mL	25.3620 mL
5 mM	0.5072 mL	2.5362 mL	5.0724 mL
10 mM	0.2536 mL	1.2681 mL	2.5362 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

M1002 is a hypoxia-inducible factor-2 (HIF-2) agonist, and can enhance the expression of HIF-2 target genes. M1002 shows synergy with prolyl-hydroxylase domain (PHD) inhibitors[1].

In Vitro

M1002 (10 μM; 24 h) enhances the expression of HIF-2 target genes with great efficacy[1].

M1002 (5 μM; 24 h) treatment shows synergy with prolyl hydroxylase domain (PHD) inhibitors[1].

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

RT-PCR[1]

Cell Line:	786-O cells
Concentration:	10 μM

Incubation Time:	24 hours
Result:	Showed clear agonistic effects on the expression of HIF-2 target genes in 786-O cells as compared with the control.

RT-PCR[1]

Cell Line:	Hep3B cells
Concentration:	5 μM
Incubation Time:	24 hours
Result:	Elevated the expression of EPO and NDRG1 by co-treatment of M1002 together with PHD inhibitors, compared with M1002 alone treatment.

REFERENCES

[1]. Dalei Wu, et al. Bidirectional modulation of HIF-2 activity through chemical ligands. Nat Chem Biol. 2019 Apr;15(4):367-376.

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