SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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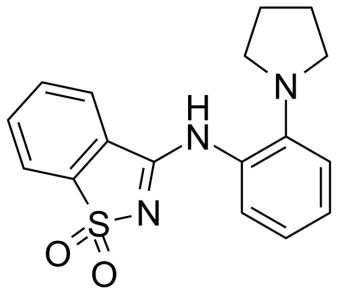
M1001

Cat. No.:	HY-111547
CAS No.:	874590-32-6
Molecular Formula:	$C_{17}H_{17}N_3O_2S$
Molecular Weight:	327.4
Target:	HIF/HIF Prolyl-Hydroxylase
Pathway:	Metabolic Enzyme/Protease
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 : 250 mg/mL (763.59 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.0544 mL	15.2718 mL	30.5437 mL
5 mM	0.6109 mL	3.0544 mL	6.1087 mL
10 mM	0.3054 mL	1.5272 mL	3.0544 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: ≥ 2.33 mg/mL (7.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

M1001 is a weak hypoxia-inducible factor-2α (HIF-2α) agonist. M1001 can bind to the HIF-2α PAS-B domain, with a K_d of 667 nM. M1001 can be used in chronic kidney disease research[1].

IC_{50} & Target

Kd: 667 nM (HIF-2α)[1]

In Vitro

M1001 (10 μM) treatment shows increased expression of HIF-2 target genes in 786-O cells[1].
M1001 (10 μM) binds to HIF-2α and has the properties of a weak agonist[1].
M1001 (1-10 μM) reduces VHL binding to HIF-2α[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	786-O cells
Concentration:	10 μM
Incubation Time:	
Result:	Increased the expression of HIF-2 target genes modestly in 786-O cells.

Western Blot Analysis[1]

Cell Line:	HEK293T cells
Concentration:	1 and 10 μM
Incubation Time:	
Result:	Reduced the physical association between HIF-2α and VHL.

REFERENCES

[1]. Wu D, et al. Bidirectional modulation of HIF-2 activity through chemical ligands. Nat Chem Biol. 2019 Feb 25.

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