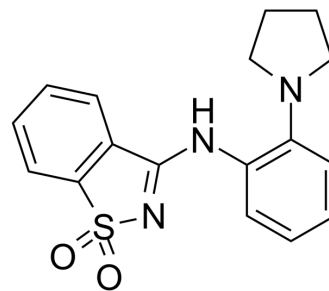


M1001

Cat. No.:	HY-111547		
CAS No.:	874590-32-6		
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₂ S		
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)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	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] .
IC₅₀ & 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 μ M
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 μ M
Incubation Time:	
Result:	Reduced the physical association between HIF-2 α and VHL.

REFERENCES

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

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

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