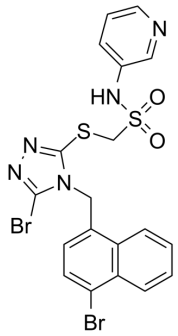
URAT1 inhibitor 1

Cat. No.:	HY-114309
CAS No.:	2268720-62-1
Molecular Formula:	$C_{19}H_{15}Br_2N_5O_2S_2$
Molecular Weight:	569.29
Target:	URAT1
Pathway:	Membrane Transporter/Ion Channel
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 : 125 mg/mL (219.57 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7566 mL	8.7829 mL	17.5657 mL
5 mM	0.3513 mL	1.7566 mL	3.5131 mL
10 mM	0.1757 mL	0.8783 mL	1.7566 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: ≥ 2.08 mg/mL (3.65 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

URAT1 inhibitor 1 (1g) is a uric acid transporter 1 (URAT1) inhibitor, with an IC_{50} of 32 nM. URAT1 inhibitor 1 has potential to treat hyperuricemia associated with gout[1].

IC_{50} & Target

IC50: 32 nM (URAT1)[1].

REFERENCES

[1]. Wu JW, et al. Synthesis, biological evaluation and 3D-QSAR studies of 1,2,4-triazole-5-substituted carboxylic acid bioisosteres as uric acid transporter 1 (URAT1)

inhibitors for the treatment of hyperuricemia associated with gout. Bioorg Med Chem Lett. 2019 Feb 1;29(3):383-388.

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