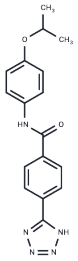
Data Sheet (Cat.No.T72166)

TargetMol

Xanthine oxidoreductase-IN-5

Chemical Properties



CAS No. : 1026652-90-3

Formula: C17H17N5O2

Molecular Weight: 323.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Xanthine oxidoreductase-IN-5 is an orally active inhibitor of xanthine oxidoreductase (XOR) with an IC50 of 55 nM. Xanthine oxidoreductase-IN-5 may be used in studies of acute hyperuricemia.
Targets(IC50)	Xanthine Oxidase
In vivo	Xanthine oxidoreductase-IN-5 (Compound IIIa) (5 mg/kg; oral) showed a lowering effect of uric acid in acute hyperuricemic mice at 5 h after administration.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (139.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0926 mL	15.4631 mL	30.9262 mL
5 mM	0.6185 mL	3.0926 mL	6.1852 mL
10 mM	0.3093 mL	1.5463 mL	3.0926 mL
50 mM	0.0619 mL	0.3093 mL	0.6185 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Peng W, et al. Design, synthesis, and evaluation of tricyclic compounds containing phenyl-tetrazole as XOR inhibitors. Eur J Med Chem. 2023;246:114947.

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