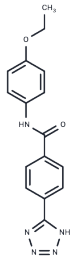
Data Sheet (Cat.No.T72078)

TargetMol

Xanthine oxidoreductase-IN-4

Chemical Properties



CAS No. : 1026587-58-5

Formula: C16H15N5O2

Molecular Weight: 309.32

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-4 is an orally active xanthine oxidoreductase (XOR) inhibitor with an IC50 value of 29.3 nM, useful for studying hyperuricemia.
Targets(IC50)	Xanthine Oxidase
In vitro	Xanthine Oxidoreductase - IN-4 (compound IIIc) has inhibitory activity against XOR (IC50=29.3 nM).[1]
In vivo	Xanthine Oxidoreductase - IN-4 (compound IIIc) (5mg/kg; oral) showed a significant hypouricemic effect in the acute Hyperuricemia model induced by potassium oxazinate/Hypoxanthine.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (145.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2329 mL	16.1645 mL	32.329 mL
5 mM	0.6466 mL	3.2329 mL	6.4658 mL
10 mM	0.3233 mL	1.6164 mL	3.2329 mL
50 mM	0.0647 mL	0.3233 mL	0.6466 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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