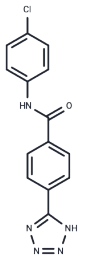
Data Sheet (Cat.No.T72165)

TargetMol

Xanthine oxidoreductase-IN-3

Chemical Properties



CAS No. : 651769-78-7

Formula: C14H10ClN5O

Molecular Weight: 299.72

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-3 is an orally active xanthine oxidoreductase (XOR) inhibitor with an IC50 of 26.3 nM, suitable for use in acute hyperuricemia studies.
Targets(IC50)	Xanthine Oxidase
In vivo	Xanthine oxidoreductase-IN-3 (compound IIIa) (5 mg/kg; oral) was shown to reduce uric acid in acute hyperuricemia mice 3 h after administration.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (150.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3364 mL	16.6822 mL	33.3645 mL
5 mM	0.6673 mL	3.3364 mL	6.6729 mL
10 mM	0.3336 mL	1.6682 mL	3.3364 mL
50 mM	0.0667 mL	0.3336 mL	0.6673 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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