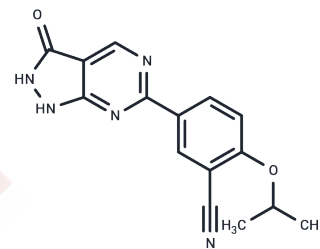


Xanthine oxidase-IN-4

Chemical Properties

CAS No. :	2642137-96-8
Formula:	C ₁₅ H ₁₃ N ₅ O ₂
Molecular Weight:	295.3
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 oxidase-IN-4 (compound 19a) is an orally active and potent xanthine oxidase (XO) inhibitor with an IC ₅₀ of 0.039 μM, suitable for research in hyperuricemia and gout. Xanthine oxidase-IN-4 demonstrates hypouricemic potency in potassium oxonate-induced hyperuricemia rats. [1].
Targets(IC50)	Others,Xanthine Oxidase
In vitro	Xanthine oxidase-IN-4 (compound 19a) exhibits significant inhibitory activity against xanthine oxidase, with an IC ₅₀ of 0.039 μM and a K _i of 0.0037 μM, across concentrations from 1 nM to 10 μM over 15 minutes [1].
In vivo	Xanthine oxidase-IN-4 (compound 19a), administered intragastrically at 10 mg/kg to male Sprague-Dawley rats (six weeks old, 180-200g, divided into six groups), significantly reduced serum uric acid concentration, with a quantified 44.3% reduction in the area under the curve (AUC) for serum uric acid levels measured between 1 and 5 hours post-dose.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3864 mL	16.9319 mL	33.8639 mL
5 mM	0.6773 mL	3.3864 mL	6.7728 mL
10 mM	0.3386 mL	1.6932 mL	3.3864 mL
50 mM	0.0677 mL	0.3386 mL	0.6773 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481