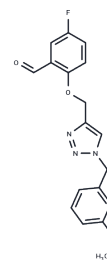


Xanthine oxidase-IN-5

Chemical Properties

CAS No. :	2276711-87-4
Formula:	C ₁₈ H ₁₆ N ₃ O ₃
Molecular Weight:	341.34
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-5, a powerful and orally active inhibitor of xanthine oxidase (XO), exhibits an IC ₅₀ value of 0.70 μM. It possesses favorable drug-like characteristics, with ligand efficiency (LE) and lipophilic ligand efficiency (LLE) values of 0.33 and 3.41, respectively. Moreover, Xanthine oxidase-IN-5 showcases significant hypouricemic effects in a hyperuricemic rat model [1].
Targets(IC ₅₀)	Others,Xanthine Oxidase
In vivo	Xanthine oxidase-IN-5 (compound 9m) effectively reduces serum uric acid levels when administered orally at 20 mg/kg in a potassium oxonate-induced hyperuricemic rat model, displaying significant hypouricemic effects within 0.5 to 8 hours post-administration [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9296 mL	14.6482 mL	29.2963 mL
5 mM	0.5859 mL	2.9296 mL	5.8593 mL
10 mM	0.293 mL	1.4648 mL	2.9296 mL
50 mM	0.0586 mL	0.293 mL	0.5859 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

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