

Xanthine oxidase-IN-20

Chemical Properties

CAS No. :	3069916-11-3
Formula:	C ₂₁ H ₂₂ N ₆ O ₆
Molecular Weight:	454.44
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-20 is a potent and orally active xanthine oxidase (XO) inhibitor, with an IC ₅₀ of 1.7 nM. In mouse and rat models of acute hyperuricemia, it significantly reduces serum uric acid (SUA) levels. Xanthine oxidase-IN-20 exhibits good safety and is applicable in research on hyperuricemia and gout.
Targets(IC ₅₀)	Xanthine Oxidase
In vitro	Xanthine oxidase-IN-20 (compound Z29) exhibits no significant toxicity to human vascular endothelial cells (VE) and human umbilical vein endothelial cells (HUVEC) over a 72-hour period.
In vivo	Xanthine oxidase-IN-20, when administered orally at doses of 0.5, 2.25, 4, and 5 mg/kg as a single dose, can reduce uric acid levels in mice and rats with hyperuricemia.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2005 mL	11.0026 mL	22.0051 mL
5 mM	0.4401 mL	2.2005 mL	4.401 mL
10 mM	0.2201 mL	1.1003 mL	2.2005 mL
50 mM	0.044 mL	0.2201 mL	0.4401 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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