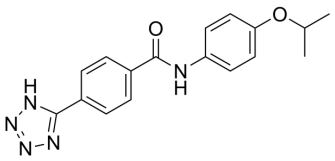
Xanthine oxidoreductase-IN-5

Cat. No.:	HY-151975
CAS No.:	1026652-90-3
Molecular Formula:	$C_{17}H_{17}N_5O_2$
Molecular Weight:	323.35
Target:	Xanthine Oxidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Xanthine oxidoreductase-IN-5 is an orally active xanthine oxidoreductase (XOR) inhibitor, with an IC_{50} of 55 nM. Xanthine oxidoreductase-IN-5 can be used for the research of acute hyperuricemia[1].
IC_{50} & Target	IC50: 55 nM (xanthine oxidoreductase)[1]
In Vivo	Xanthine oxidoreductase-IN-5 (compound IIIe) (5 mg/kg; p.o.) shows a uric acid-lowering effect from 5 h after administration in mice with acute hyperuricemia[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ICR mice (18-22 g) were induced acute hyperuricemia by injection of potassium oxonate and hypoxanthine[1]
Dosage:	5 mg/kg
Administration:	Suspended in 0.5% CMC-Na solution for intragastric administration
Result:	Showed a uric acid-lowering effect from 5 h after administration.

REFERENCES

[1]. Peng W, et, al. Design, synthesis, and evaluation of tricyclic compounds containing phenyl-tetrazole as XOR inhibitors. Eur J Med Chem. 2022 Nov 28;246:114947.

Caution: Product has not been fully validated for medical applications. For research use only.

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