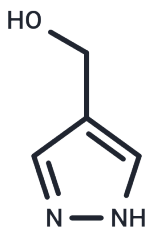
Data Sheet (Cat.No.T66965)

TargetMol

4-Hydroxymethylpyrazole

Chemical Properties



CAS No. : 25222-43-9

Formula: C4H6N2O

Molecular Weight: 98.11

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	4-Hydroxymethylpyrazole is the main primary metabolite of formomizole formed in the process of liver oxidation. The plasma level increases with the increase of dosage of formomizole, but the half-life is relatively short. 4-Hydroxymethylpyrazole has a certain inhibitory effect on alcohol dehydrogenase (ADH) in humans and monkeys, but its inhibitory effect is obviously lower than that of Fomepizole.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 100.00 mg/mL (1019.26 mM),Sonication is recommended. H2O: 100.00 mg/mL (1019.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	10.1926 mL	50.9632 mL	101.9264 mL
5 mM	2.0385 mL	10.1926 mL	20.3853 mL
10 mM	1.0193 mL	5.0963 mL	10.1926 mL
50 mM	0.2039 mL	1.0193 mL	2.0385 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

R Blomstrand, et al. Pyrazoles as Inhibitors of Alcohol Oxidation and as Important Tools in Alcohol Research: An Approach to Therapy Against Methanol Poisoning. Proc Natl Acad Sci U S A . 1979 Jul;76(7):3499-503.

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