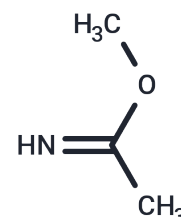


Methyl acetimidate

Chemical Properties

CAS No. :	14777-29-8
Formula:	C ₃ H ₇ NO
Molecular Weight:	73.09
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	Methyl acetimidate is an effective in vitro antisickling agent. It has few detrimental effects on the red cell.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	13.6818 mL	68.4088 mL	136.8176 mL
5 mM	2.7364 mL	13.6818 mL	27.3635 mL
10 mM	1.3682 mL	6.8409 mL	13.6818 mL
50 mM	0.2736 mL	1.3682 mL	2.7364 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

- Chao TL, Berenfeld MR. Prevention of the immune agglutination of methyl acetimidate-reacted sickle erythrocytes by prior reaction with pyridoxal 5'-phosphate. J Biol Chem. 1981 Jun 10;256(11):5324-6. PubMed PMID: 7240139.
- Chao TL, Berenfeld MR, Gabuzda TG. Current status of methyl acetimidate as an extracorporeal antisickling agent. Am J Pediatr Hematol Oncol. 1984 Spring;6(1):55-8. PubMed PMID: 6711765.
- Richardson VB, Littlefield LG, Colyer SP. Cytogenetic evaluations in human lymphocytes exposed to methyl acetimidate, a lysine-specific protein crosslinking agent. Mutat Res. 1987 Sep;180(1):121-9. PubMed PMID: 3114624.
- Chao TL, Berenfeld MR, Gabuzda TG. Protection of erythrocyte membrane amino groups from reaction with methyl acetimidate by pyridoxal 5'-phosphate Schiff base formation. Biochim Biophys Acta. 1984 Apr 11;771(2):183-7. PubMed PMID: 6704394.

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