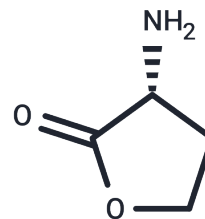


D-Homoserine lactone

Chemical Properties

CAS No. :	51744-82-2
Formula:	C ₄ H ₇ NO ₂
Molecular Weight:	101.1
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	D-homoserine lactone is an enantiomer of L-homoserine lactone and an inhibitor of serine hydroxymethyltransferase (SHMT; Ki= 11 mM for the rabbit enzyme).1
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.8912 mL	49.456 mL	98.912 mL
5 mM	1.9782 mL	9.8912 mL	19.7824 mL
10 mM	0.9891 mL	4.9456 mL	9.8912 mL
50 mM	0.1978 mL	0.9891 mL	1.9782 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

Wang, E.A., Kallen, R., and Walsh, C. Mechanism-based inactivation of serine transhydroxymethylases by D-fluoroalanine and related amino acids. *J. Biol. Chem.* 256(13):6917-6926(1981)

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