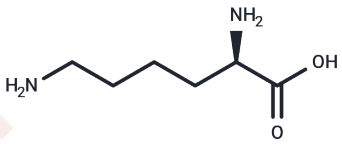
Data Sheet (Cat.No.T66651)

TargetMol

D-Lysine

Chemical Properties



CAS No. : 923-27-3

Formula: C6H14N2O2

Molecular Weight: 146.19

Storage: Keep away from moisture
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-Lysine is the D-isomer of L-Lysine, prepared by chemical racemization and microbial asymmetric degradation of L-Lysine.D-Lysine reduces renal uptake of radiolabeled peptides and decreases nephrotoxicity.
Targets(IC50)	Endogenous Metabolite
In vivo	D-Lysine, given orally in a dose of 400 mg/kg at 30 or 15 min before 111In-DTPAOC injection, resulted in 30% and 20% inhibition of kidney uptake, respectively. [1] Renal uptake of 90Y-DOTATOC was reduced by 65% by intravenous D-Lysine, whereas radioactivity in blood, pancreas and adrenal glands was not affected. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.8404 mL	34.2021 mL	68.4041 mL
5 mM	1.3681 mL	6.8404 mL	13.6808 mL
10 mM	0.684 mL	3.4202 mL	6.8404 mL
50 mM	0.1368 mL	0.684 mL	1.3681 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

Bernard BF, Krenning EP, Breeman WA, Rolleman EJ, Bakker WH, Visser TJ, Mäcke H, de Jong M. D-Lysine reduction of indium-111 octreotide and yttrium-90 octreotide renal uptake. J Nucl Med. 1997 Dec;38(12):1929-33.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481