
Product Data Sheet

Product Name: D-Lysine
Cat. No.: GC67216

Chemical Properties

Cas. No. 923-27-3

Formula $C_6H_{14}N_2O_2$ M.Wt 146.19

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

D-Lysine is a useful raw material employed as an analog of luteinizing-hormone-releasing hormone and as a drug carrier in the form of polylysine. D-Lysine decreases renal uptake of radioactivity during scintigraphy and PRRT with low toxicity. D-Lysine does not interfere with the natural amino acid metabolic balance^{[1][2]}.

D-Lysine (400 mg/kg; i.v. or p.o.) dose does not result in significantly greater inhibition of kidney uptake of ¹¹¹In-DTPAOC, and Oral administration of D-Lysine also reduces kidney uptake in rats^[1].

[1]. Bernard BF, et al. D-lysine reduction of indium-111 octreotide and yttrium-90 octreotide renal uptake. J Nucl Med. 1997 Dec;38(12):1929-33.

[2]. Takahashi E, et al. D-lysine production from L-lysine by successive chemical racemization and microbial asymmetric degradation. Appl Microbiol Biotechnol. 1997 Apr;47(4):347-51.

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

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