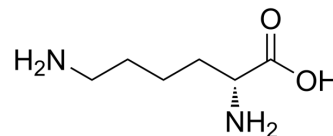


## D-Lysine

Cat. No.:	HY-Y1091
CAS No.:	923-27-3
Molecular Formula:	C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	146.19
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	D-Lysine is a useful raw material employed as an analog of lutenizing-hormone-releasing hormone and as a agent carrier in the form of polylysine. D-Lysine decreases renal uptake of radioactivity during scintigraphy and PRRT with low toxicity. D-Lysine not interferes with the natural amino acid metabolic balance <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vivo	D-Lysine (400 mg/kg; i.v. or p.o.) dose not result in significantly greater inhibition of kidney uptake of <sup>111</sup> In-DTPAOC, and Oral administration of D-lysine also reduces kidney uptake in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[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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