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**Product Data Sheet**

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Product Name: L-Lysine  
Cat. No.: GC36470

**Chemical Properties**

Cas. No. 56-87-1

SMILES N[C@@H](CCCCN)C(O)=O

Formula  $C_6H_{14}N_2O_2$

M.Wt 146.19

Solubility Water: 100 mg/mL (684.04 mM); DMSO: < 1 mg/mL  
(insoluble or slightly soluble)

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**

L-lysine is an essential amino acid[1][2] with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions[2]. Human Endogenous Metabolite

References:

[1]. Santos AMD, et al. Transitional metaplasia in intestinal epithelium of rats submitted to intestinal cystoplasty and treatment with L -lysine. Acta Cir Bras. 2017 Apr;32(4):297-306. [2]. Al-Malki AL. Suppression of acute pancreatitis by L-lysine in mice. BMC Complement Altern Med. 2015 Jun 23;15:193.

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

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