
Product Data Sheet

Product Name: L-Lysine hydrate

Cat. No.: GC66490

Chemical Properties

Cas. No. 39665-12-8

Formula $C_6H_{16}N_2O_3$

M.Wt 164.2

Solubility H_2O : 100 mg/mL (609.01 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 hydrate is an essential amino acid. L-Lysine hydrate can be research for vascular calcification (VC) and acute pancreatitis^{[1][2]}.

L-Lysine hydrate (VSMCs) suppresses plasma iPTH and elevates plasma alanine, proline, plasma arginine, and homo arginine, thereby inhibiting apoptosis of VSMCs and mineral precipitation^[1].

L-Lysine hydrate (40 μ g/kg; p.o.) ameliorates arterial calcification in adenine rats and protects the femora from osteoporotic changes in adenine rats^[1].

L-Lysine hydrate (10 and 400 mg/kg; i.g. and p.o.; Male mice) inhibits pancreatic tissue damage^[2].

Animal Model: Male mice^[2]

Dosage: 10 and 400 mg/kg

Administration: Intraperitoneal injection and oral administration; for 15 days

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

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Result: Inhibited the release of the inflammatory cytokine IL-6 and enhance antioxidant activity.

[1]. Shimomura A, et, al. Dietary L-lysine prevents arterial calcification in adenine-induced uremic rats. J Am Soc Nephrol. 2014 Sep;25(9):1954-65.

[2]. Al-Malki AL. Suppression of acute pancreatitis by L-lysine in mice. BMC Complement Altern Med. 2015 Jun 23;15:193.

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