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**Product Data Sheet**

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Product Name: L-Lysine acetate

Cat. No.: GC66491

**Chemical Properties**

Cas. No. 57282-49-2

Formula  $C_8H_{18}N_2O_4$  M.Wt 206.24

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**

L-Lysine acetate is an essential amino acid. L-Lysine acetate can be research for vascular calcification (VC) and Acute pancreatitis<sup>[1][2]</sup>.

L-Lysine acetate (VSMCs) suppresses plasma iPTH and elevates plasma alanine, proline, plasma arginine, and homo arginine, thereby inhibiting apoptosis of VSMCs and mineral precipitation<sup>[1]</sup>.

L-Lysine acetate (40 µg/kg; p.o.) ameliorates arterial calcification in adenine rats and protects the femora from osteoporotic changes in adenine rats<sup>[1]</sup>.

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

Animal Model: Male mice<sup>[2]</sup>

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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