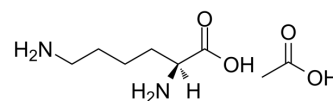


L-Lysine acetate

Cat. No.:	HY-W014606
CAS No.:	57282-49-2
Molecular Formula:	C ₈ H ₁₈ N ₂ O ₄
Molecular Weight:	206.24
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Lysine acetate is an essential amino acid. L-Lysine acetate can be research for vascular calcification (VC) and Acute pancreatitis ^{[1][2]} .	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	L-Lysine acetate (40 µg/kg; p.o.) ameliorates arterial calcification in adenine rats and protects the femora from osteoporotic changes in adenine rats ^[1] . L-Lysine acetate (10 and 400 mg/kg; i.g. and p.o.; Male mice) inhibits pancreatic tissue damage ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male mice ^[2]
	Dosage:	10 and 400 mg/kg
	Administration:	Intraperitoneal injection and oral administration; for 15 days.
	Result:	Inhibited the release of the inflammatory cytokine IL-6 and enhance antioxidant activity.

CUSTOMER VALIDATION

- Microbiome. 2019 Mar 20;7(1):43.
- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

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