

Anserine

Chemical Properties

CAS No. : 584-85-0

Formula: C₁₀H₁₆N₄O₃

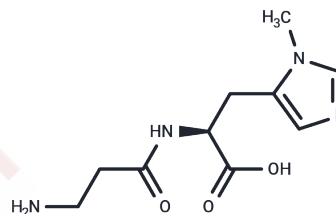
Molecular Weight: 240.26

Appearance: Solid

Storage:

keep away from moisture, keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Anserine (L-Anserine) is a dipeptide containing β -alanine and histidine, which can be found in the skeletal muscle and brain of mammals and birds. Anserine is not cleaved by serum carnosinase and act as biochemical buffers, chelators, antioxidants, and anti-glycation agents. Anserine improves memory functions in Alzheimer's disease (AD)-model mice.
Targets(IC50)	Endogenous Metabolite
In vivo	Intraperitoneal administration of specific doses of anserine to hyperglycemic rats reduced hyperglycemia and plasma glucagon concentrations, whereas thioperamide eliminated the effects of anserine. Intraduodenal injection of 0.1 mg anserine to anesthetized rats after laparotomy suppressed sympathetic nerve activity and enhanced activity of the vagal gastric efferent. In addition, oral administration of anserine reduced blood glucose levels during oral glucose tolerance testing in humans. These results suggest the possibility that anserine might be a control factor for blood glucose, and that histaminergic nerves may be involved in the hypoglycemic effects of anserine

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1622 mL	20.8108 mL	41.6216 mL
5 mM	0.8324 mL	4.1622 mL	8.3243 mL
10 mM	0.4162 mL	2.0811 mL	4.1622 mL
50 mM	0.0832 mL	0.4162 mL	0.8324 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kubomura, Daiki, Matahira, et al. Effect of anserine ingestion on the hyperglycemia and autonomic nerves in rats and humans.[J]. Nutritional Neuroscience, 2010.

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