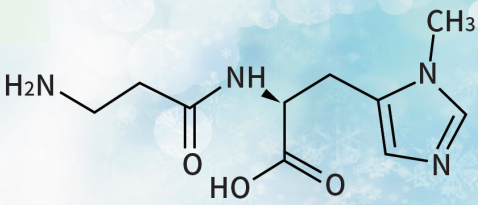
L-Anserine

CAS No.: 584-85-0

Molecular Formula: $C_{10}H_{16}N_4O_3$

Molecular Weight: 240.26



Description

Anserine is a natural dipeptide composed of β-alanine and 1-methyl-L-histidine, with significantly higher stability than carnosine. Widely present in animal muscle, it exhibits antioxidant and anti-glycation properties while regulating uric acid metabolism, targeting core mechanisms of chronic diseases.

Specification

L-Anserine 98% HPLC

Functions

1. Uric Acid Metabolism Regulation & Gout Management

● Inhibits uric acid production: Competitively inhibits xanthine oxidase (XO) activity (IC_{50}=12μM), blocking purine-to-uric acid conversion.

● Promotes uric acid excretion: Activates renal ABCG2 efflux pumps and inhibits URAT1 reabsorption.

2. Potent Antioxidation & Anti-aging

● Free radical scavenging: Hydroxyl radical (·OH) scavenging IC_{50}=12μM, ORAC value up to 100,000μmol TE/100g.

● Metal chelation: Inhibits Fe^{2+}/Cu^{2+}-induced Fenton reaction, reducing DNA oxidative damage.

3. Anti-glycation & Diabetic Complications Prevention

● Inhibits AGEs formation: Captures α,β-unsaturated aldehyde intermediates to reduce advanced glycation end products (AGEs).

● Repairs collagen: Improves vascular elasticity damaged by AGEs cross-linking.

Advantages

1.Natural & safe uric acid management: The only clinically validated natural dipeptide for bidirectional uric acid regulation (promoting excretion + inhibiting production), free from hepatorenal toxicity or gastrointestinal side effects of traditional drugs (e.g., allopurinol, colchicine).

2.Multi-target synergy: Combines antioxidation, anti-inflammation, and anti-glycation, addressing core pathways of aging-related diseases (diabetes, Alzheimer's, cardiovascular diseases). Reduces lactic acid accumulation and extends exercise endurance.

3.Superior bioavailability: Reaches peak plasma concentration (Cmax=2.5μg/mL) within 2 hours after oral administration, with ≥90% bioavailability—significantly higher than carnosine (60%).

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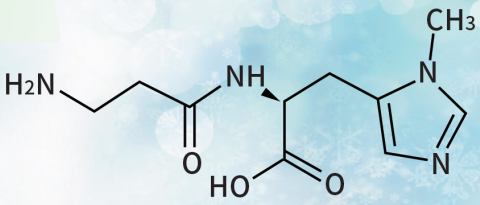
鹅肌肽

CAS号：584-85-0

化学式：$C_{10}H_{16}N_4O_3$

分子式：240.26g/mol



描述

鹅肌肽是由β-丙氨酸和1-甲基-L-组氨酸组成的天然二肽，稳定性显著优于普通肌肽，在动物肌肉中广泛存在，抗氧化、抗糖基化，同时调节尿酸代谢，覆盖慢性病核心机制。

规格

鹅肌肽98% HPLC

功能

1）调节尿酸代谢与痛风管理：

抑制尿酸生成：竞争性抑制黄嘌呤氧化酶（XO）活性（IC_{50}=12μM），阻断嘌呤向尿酸转化

促进尿酸排泄：激活肾脏ABCG2外排泵并抑制URAT1重吸收临床证据：

2）强效抗氧化与抗衰老

自由基清除：羟基自由基（·OH）清除率 IC_{50}=12μM，ORAC值达10万μmol TE/100g。

金属螯合：抑制Fe^{2+}/Cu^{2+}诱导的Fenton反应，减少DNA氧化损伤

3）抗糖基化与糖尿病并发症预防

抑制AGEs形成：捕获α,β-不饱和醛类中间体，减少晚期糖基化终产物（AGEs）生成。

修复胶原蛋白：改善AGEs交联导致的血管弹性下降

优势

天然安全的尿酸管理方案：唯一经临床验证的天然二肽，双向调节尿酸（促排泄+抑生成），无传统药物（如别嘌醇、秋水仙碱）的肝肾毒性或胃肠道副作用

多靶点协同效应：抗氧化+抗炎+抗糖基化，覆盖衰老相关疾病（糖尿病、阿尔茨海默病、心血管疾病）的核心病理机制。减少乳酸堆积，延长力竭运动时间

生物利用度优势：口服后2小时达血药浓度峰值（Cmax=2.5μg/mL），生物利用度≥90%，显著高于肌肽（60%）。

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