Product Data Sheet

Anserine

Storage:

Cat. No.: HY-113354 CAS No.: 584-85-0 Molecular Formula: $C_{10}H_{16}N_4O_3$ Molecular Weight: 240.26

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

H₂O: 100 mg/mL (416.22 mM; Need ultrasonic) In Vitro

DMSO: < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo 1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (416.22 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

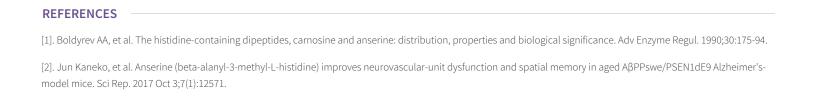
Description Anserine, a methylated form of Carnosine, is an orally active, natural Histidine-containing dipeptide found in skeletal muscle of vertebrates. Anserine is not cleaved by serum carnosinase and act as biochemical buffers, chelators, antioxidants, and anti-glycation agents. Anserine improves memory functions in Alzheimer's disease (AD)-model mice^{[1][2]}.

IC₅₀ & Target Human Endogenous Metabolite

> Anserine (drinking water at a concentration of 2.0 g/L (equivalent to 10 mg/mouse); for 8 weeks) completely recoveres the memory deficits, improves pericyte coverage on endothelial cells in the brain, and diminishes chronic glial neuroinflammatory reactions in AβPPswe/PSEN1dE9 Alzheimer's disease (AD) model mice over 18-months old^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo



 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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