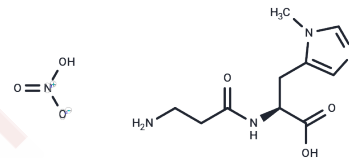


L-Anserine nitrate

Chemical Properties

CAS No. :	10030-52-1
Formula:	C10H17N5O6
Molecular Weight:	303.27
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	L-Anserine nitrate (L-Anserine nitrate salt) is a dipeptide found in most animal tissues. In model systems it is a potent Antioxidant and scavenger of hydroxyl radicals. The compound inhibits nonenzymatic protein glycation induced by aldose and ketose reducing sugars. It is much less potent than L-carnosine as an inhibitor of protein crosslinking.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 59 mg/mL (194.55 mM),Sonication is recommended. DMSO: 3.04 mg/mL (10.02 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	3.2974 mL	16.487 mL	32.9739 mL
5 mM	0.6595 mL	3.2974 mL	6.5948 mL
10 mM	0.3297 mL	1.6487 mL	3.2974 mL
50 mM	0.0659 mL	0.3297 mL	0.6595 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hobart L J, et al. Anti-crosslinking properties of carnosine: Significance of histidine[J]. Life Sciences, 2004, 75(11): 1379-1389.12;457(7231):910-4. doi: 10.1038/nature07762.

Szwergold B S . Carnosine and anserine act as effective transglycating agents in decomposition of aldose-derived Schiff bases[J]. Biochem Biophys Res Commun. 2005 Oct 14;336(1):36-41.

Ukeda H, et al. Effect of Carnosine and Related Compounds on the Inactivation of Human Cu,Zn-Superoxide Dismutase by Modification of Fructose and Glycolaldehyde[J]. Biosci Biotechnol Biochem. 2002 Jan;66(1):36-43.

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