Data Sheet (Cat.No.TP1088)

TargetMol®
YOUR TARGET MOLECULES

N-Acetylcarnosine

Chemical Properties

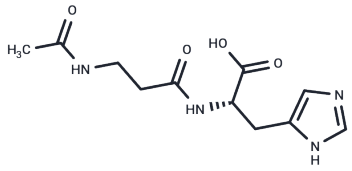
CAS No. : 56353-15-2

Formula: C11H16N4O4

Molecular Weight: 268.27

Appearance: no data available

Storage: store at low temperature,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	N-Acetylcarnosine (N-Acetyl-L-carnosine) is thought to be able to combat some of the effects of oxidative stress as it has anti-oxidant properties.
Targets(IC50)	Others
In vivo	Formulation A, containing 1% N-Acetylcarnosine, is administered in an 80 μL volume to the right eyes of male grey chinchilla rabbits (aged 3-4 months, weighing 2-3 k). This N-Acetylcarnosine prodrug in eye drop form is designed to enhance clinical outcomes for ophthalmic conditions, specifically aiding in the prevention and reversal of cataracts in both human and animal eyes [1].

Solubility Information

Solubility	H2O: 250 mg/mL (931.90 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7276 mL	18.6379 mL	37.2759 mL
5 mM	0.7455 mL	3.7276 mL	7.4552 mL
10 mM	0.3728 mL	1.8638 mL	3.7276 mL
50 mM	0.0746 mL	0.3728 mL	0.7455 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

Babizhayev MA, et al. N-Acetylcarnosine, a natural histidine-containing dipeptide, as a potent ophthalmic drug in treatment of human cataracts. Peptides. 2001 Jun;22(6):979-94.
Ma X, Tan X, Yu B, et al. DOCK2 regulates

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481