# **N-Acetylcarnosine**

Cat. No.: HY-133026 CAS No.: 56353-15-2 Molecular Formula:  $C_{11}H_{16}N_4O_4$ Molecular Weight: 268.27 Others Target: Pathway: Others

Storage: Sealed storage, away from moisture

> Powder -80°C 2 years

-20°C 1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**Product** Data Sheet

### **SOLVENT & SOLUBILITY**

In Vitro

H<sub>2</sub>O: 250 mg/mL (931.90 mM; Need ultrasonic)

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

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 (372.76 mM); Clear solution; Need ultrasonic

# **BIOLOGICAL ACTIVITY**

Description	N-Acetylcarnosine, a natural histidine-containing dipeptide, is a source of pharmacological principal L-carnosine. N-Acetylcarnosine is a potent ophthalmic agent in human cataracts <sup>[1]</sup> .
In Vivo	Right eyes of the rabbits (male grey chinchilla rabbits aged 3-4 months weighing 2-3 k) are instilled with 80 $\mu$ L of formulation A containing 1 % N-Acetylcarnosine. The N-Acetylcarnosine prodrug eye drops optimize the clinical effects for the treatment of ophthalmic disorders (such as prevention and reversal of cataracts in human and animal eyes) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## **REFERENCES**

[1]. Babizhayev MA, et al. N-Acetylcarnosine, a natural histidine-containing dipeptide, as a potent ophthalmic drug in treatment of human cataracts. Peptides. 2001

