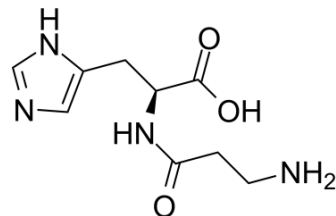


## L-Carnosine

Cat. No.:	HY-W013494
CAS No.:	305-84-0
Molecular Formula:	C <sub>9</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	226.23
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (552.54 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4203 mL	22.1014 mL	44.2028 mL
	5 mM	0.8841 mL	4.4203 mL	8.8406 mL
	10 mM	0.4420 mL	2.2101 mL	4.4203 mL

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

### BIOLOGICAL ACTIVITY

Description	L-Carnosine is a dipeptide of the amino acids beta-alanine and histidine and has the potential to suppress many of the biochemical changes that accompany aging.
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vitro	L-Carnosine is a dipeptide of the amino acids beta-alanine and histidine and has the potential to suppress many of the biochemical changes that accompany aging <sup>[1]</sup> . Carnosine also exhibits some antioxidant effects. The antioxidant mechanism of carnosine is attributed to its chelating effect against metal ions, superoxide dismutase (SOD)-like activity, and ROS and free radicals scavenging ability <sup>[2]</sup> .

### REFERENCES

[1]. Hipkiss AR, et al. Would carnosine or a carnivorous diet help suppress aging and associated pathologies? Ann N Y Acad Sci. 2006 May;1067:369-74.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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