

carnosine synthase

Cat. No. EXWM-5732

Lot. No. (See product label)

Introduction

Description

This enzyme was thought to form AMP, but studies with highly purified enzyme proved that it forms ADP. Carnosine is a dipeptide that is present at high concentrations in skeletal muscle and the olfactory bulb of vertebrates. It is also found in the skeletal muscle of some invertebrates. The enzyme can also catalyse the formation of homocarnosine from 4-aminobutanoate and L-histidine, with much lower activity.

Synonyms

carnosine synthetase; carnosine-anserine synthetase; homocarnosine-carnosine synthetase; carnosine-homocarnosine synthetase; L-histidine:β-alanine ligase (AMP-forming) (incorrect)

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.2.11

CAS No. 9023-61-4

Reaction $\text{ATP} + \text{L-histidine} + \beta\text{-alanine} = \text{ADP} + \text{phosphate} + \text{carnosine}$

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.