Creative Enzymes®

carotenoid isomerooxygenase

Cat. No. EXWM-0585

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the moth Galleria mellonella and the fruit fly Drosophila melanogaster, is involved in the synthesis of retinal from dietary caroteoids in insects. The enzyme accepts different all-trans carotenoids, including β-carotene, α-carotene and lutein, and catalyses the symmetrical cleavage of the carotenoid and the simultaneous isomerization of only one of the products to a cis configuration. When the substrate is hydroxylated only in one side (as in cryptoxanthin), the enzyme preferentially isomerizes the hydroxylated part of the molecule.
Synonyms	ninaB (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.13.11.65
Reaction	zeaxanthin + O2 = (3R)-11-cis-3-hydroxyretinal + (3R)-all-trans-3-hydroxyretinal
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.