

carotenoid isomeroxygenase

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 carotenoids 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.