Creative Enzymes®

β-carotene 3-hydroxylase

Cat. No. EXWM-0729

Lot. No. (See product label)

Introduction

Description	Requires ferredoxin and Fe(II). Also acts on other carotenoids with a β-end group. In some species canthaxanthin is the preferred substrate.
Synonyms	β-carotene 3,3'-monooxygenase; CrtZ

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.129
CAS No.	133425-64-6
Reaction	β-carotene + 2 NADH + 2 H+ + 2 O2 = zeaxanthin + 2 NAD+ + 2 H2O(overall reaction); (1a) β-carotene + NADH + H+ + O2 = β-cryptoxanthin + NAD+ + H2O; (1b) β-cryptoxanthin + NADH + H+ + O2 = zeaxanthin + NAD+ + H2O
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 ℃.