

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