

## **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  $\beta$ -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  $\beta$ -carotene + 2 NADH + 2 H+ + 2 O2 = zeaxanthin + 2 NAD+ + 2 H2O(overall

reaction); (1a)  $\beta$ -carotene + NADH + H+ + O2 =  $\beta$ -cryptoxanthin + NAD+ + H2O;

(1b)  $\beta$ -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 $\sim$ -80 °C.

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