

zeaxanthin 7,8-dioxygenase

Cat. No. EXWM-1052

Lot. No. (See product label)

Introduction

Description

The enzyme, characterized from the plant *Crocus sativus*, acts twice on zeaxanthin, cleaving 3-hydroxycyclocitral off each 3-hydroxy end group. It is part of the zeaxanthin degradation pathway in that organism, leading to the different compounds that impart the color, flavor and aroma of the saffron spice.

Synonyms

zeaxanthin 7,8(7',8')-cleavage dioxygenase; CsZCD (incorrect); CCD2 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.99.42

Reaction

zeaxanthin + 2 O₂ = crocetin dialdehyde + 2 (3S)-3-hydroxycyclocitral (overall reaction); (1a) zeaxanthin + O₂ = β-citraurin + (3S)-3-hydroxycyclocitral; (1b) β-citraurin + O₂ = crocetin dialdehyde + (3S)-3-hydroxycyclocitral

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.