

## 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 O<sub>2</sub> = crocetin dialdehyde + 2 (3S)-3-hydroxycyclocitral (overall reaction); (1a) zeaxanthin + O<sub>2</sub> = β-citraurin + (3S)-3-hydroxycyclocitral; (1b) β-citraurin + O<sub>2</sub> = 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.