

## zeaxanthin epoxidase

Cat. No. EXWM-0899

Lot. No. (See product label)

### Introduction

**Description** A flavoprotein (FAD) that is active under conditions of low light. Along with EC 1.10.99.3, violaxanthin de-epoxidase, this enzyme forms part of the xanthophyll (or violaxanthin) cycle, which is involved in protecting the plant against damage by excess light. It will also epoxidize lutein in some higher-plant species.

**Synonyms** Zea-epoxidase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.90

**CAS No.** 149718-34-3

**Reaction** zeaxanthin + 2 NAD(P)H + 2 H<sup>+</sup> + 2 O<sub>2</sub> = violaxanthin + 2 NAD(P)<sup>+</sup> + 2 H<sub>2</sub>O (overall reaction); (1a) zeaxanthin + NAD(P)H + H<sup>+</sup> + O<sub>2</sub> = antheraxanthin + NAD(P)<sup>+</sup> + H<sub>2</sub>O; (1b) antheraxanthin + NAD(P)H + H<sup>+</sup> + O<sub>2</sub> = violaxanthin + NAD(P)<sup>+</sup> + H<sub>2</sub>O

**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.