

## 15-cis-phytoene desaturase

Cat. No. EXWM-1389

Lot. No. (See product label)

### Introduction

**Description** This enzyme is involved in carotenoid biosynthesis in plants and cyanobacteria. The enzyme from *Synechococcus* can also use NAD<sup>+</sup> and NADP<sup>+</sup> as electron acceptor under anaerobic conditions. The enzyme from *Gentiana lutea* shows no activity with NAD<sup>+</sup> or NADP<sup>+</sup>.

**Synonyms** phytoene desaturase (ambiguous); PDS; plant-type phytoene desaturase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.5.5

**Reaction** 15-cis-phytoene + 2 plastoquinone = 9,15,9'-tricis- $\zeta$ -carotene + 2 plastoquinol (overall reaction); (1a) 15-cis-phytoene + plastoquinone = 15,9'-dicis-phytofluene + plastoquinol; (1b) 15,9'-dicis-phytofluene + plastoquinone = 9,15,9'-tricis- $\zeta$ -carotene + plastoquinol

**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.