

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⁺ and NADP⁺ as electron acceptor under anaerobic conditions. The enzyme from *Gentiana lutea* shows no activity with NAD⁺ or NADP⁺.

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- ζ -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- ζ -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.