Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.