

phytoene desaturase (3,4-didehydrolycopene-forming)

Cat. No. EXWM-1432

Lot. No. (See product label)

Introduction

Description

This enzyme is involved in carotenoid biosynthesis and catalyses up to five desaturation steps (cf. EC 1.3.99.28 [phytoene desaturase (neurosporene-forming)], EC 1.3.99.29 [phytoene desaturase (ζ-carotene-forming)] and EC 1.3.99.31 [phytoene desaturase (lycopene-forming)]).

Synonyms

5-step phytoene desaturase; five-step phytoene desaturase; phytoene desaturase (ambiguous); Al-1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.99.30

Reaction

15-cis-phytoene + 5 acceptor = all-trans-3,4-didehydrolycopene + 5 reduced acceptor (overall reaction); (1a) 15-cis-phytoene + acceptor = all-trans-phytofluene + reduced acceptor; (1b) all-trans-phytofluene + acceptor = all-trans-ζ-carotene + reduced acceptor; (1c) all-trans-ζ-carotene + acceptor = all-trans-neurosporene + reduced acceptor; (1d) all-trans-neurosporene + acceptor = all-trans-lycopene + reduced acceptor; (1e) all-trans-lycopene + acceptor = all-trans-3,4-didehydrolycopene + reduced acceptor

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.