

4,4'-diapophytoene desaturase (4,4'-diapolycopene-forming)

Cat. No. EXWM-1409

Lot. No. (See product label)

Introduction

Description The enzyme catalyses four successive dehydrogenations, resulting in production of

4,4'-diapolycopene. While the enzyme from Staphylococcus aureus was only shown to produce 4,4'-diaponeurosporene in vivo, it is able to catalyse the last reaction in

vitro.

Synonyms dehydrosqualene desaturase (ambiguous); CrtN (ambiguous); 4,4'-

diapophytoene:FAD oxidoreductase (ambiguous); 15-cis-4,4'-diapophytoene:FAD

oxidoreductase; 4,4'-diapophytoene desaturase (ambiguous)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.8.2

Reaction 15-cis-4,4'-diapophytoene + 4 FAD = all-trans-4,4'-diapolycopene + 4 FADH2

(overall reaction); (1a) 15-cis-4,4'-diapophytoene + FAD = all-trans-4,4'-

diapophytofluene + FADH2; (1b) all-trans-4,4'-diapophytofluene + FAD = all-trans-4,4'-diapo- ζ -carotene + FADH2; (1c) all-trans-4,4'-diapo- ζ -carotene + FAD = all-trans-4,4'-diaponeurosporene + FADH2; (1d) all-trans-4,4'-diaponeurosporene +

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FAD = all-trans-4,4'-diapolycopene + FADH2

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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