Creative Enzymes®

all-trans-phytoene synthase

Cat. No. EXWM-2838

Lot. No. (See product label)

Introduction

Description	Requires Mn2+ for activity. The enzyme from the bacterium Pantoea agglomerans (previously known as Erwinia herbicola) produces the all-trans isomer of phytoene. cf. EC 2.5.1.32, 15-cis-phytoene synthase.
Synonyms	prephytoene-diphosphate synthase (ambiguous); phytoene synthetase (ambiguous); PSase (ambiguous); geranylgeranyl-diphosphate geranylgeranyltransferase (ambiguous); 15-trans-phytoene synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.99
Reaction	2 geranylgeranyl diphosphate = all-trans-phytoene + 2 diphosphate (overall reaction); (1a) 2 geranylgeranyl diphosphate = diphosphate + prephytoene diphosphate; (1b) prephytoene diphosphate = all-trans-phytoene + diphosphate
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 ℃.