Creative Enzymes®

all-trans-nonaprenyl diphosphate synthase [geranylgeranyl-diphosphate specific]

Cat. No. EXWM-2823

Lot. No. (See product label)

Introduction

Description	Geranylgeranyl diphosphate is preferred over farnesyl diphosphate as allylic substrate. The plant Arabidopsis thaliana has two different enzymes that catalyse this reaction. SPS1 contributes to the biosynthesis of the ubiquinone side-chain while SPS2 supplies the precursor of the plastoquinone side-chains.
Synonyms	nonaprenyl diphosphate synthase (ambiguous); solanesyl diphosphate synthase (ambiguous); At-SPS2; At-SPS1; SPS1; SPS2

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.85
Reaction	geranylgeranyl diphosphate + 5 isopentenyl diphosphate = 5 diphosphate + all-trans-nonaprenyl 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 ℃.