

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