

## geranylfarnesyl diphosphate synthase

Cat. No. EXWM-2819

Lot. No. (See product label)

### Introduction

#### Description

The enzyme from *Methanosarcina mazei* is involved in biosynthesis of the polyprenyl side-chain of methanophenazine, an electron carrier utilized for methanogenesis. It prefers geranylgeranyl diphosphate and farnesyl diphosphate as allylic substrate. The enzyme from *Aeropyrum pernix* prefers farnesyl diphosphate as allylic substrate. The enzyme is involved in the biosynthesis of C25-C25 membrane lipids.

#### Synonyms

FGPP synthase; (all-E) geranylfarnesyl diphosphate synthase; GFPS; Fgs

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.81

#### Reaction

geranylgeranyl diphosphate + isopentenyl diphosphate = (2E,6E,10E,14E)-geranylfarnesyl diphosphate + 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.