

## 2,3-bis-O-geranylgeranyl-sn-glycero-phospholipid reductase

Cat. No. EXWM-1392

Lot. No. (See product label)

### Introduction

#### Description

A flavoprotein (FAD). The enzyme is involved in the biosynthesis of archaeal membrane lipids. It catalyses the reduction of all 8 double bonds in 2,3-bis-O-geranylgeranyl-sn-glycero-phospholipids and all 4 double bonds in 3-O-geranylgeranyl-sn-glycerol phospholipids with comparable activity. Unlike EC 1.3.1.101, 2,3-bis-O-geranylgeranyl-sn-glycerol 1-phosphate reductase [NAD(P)H], this enzyme shows no activity with NADPH, and requires a dedicated ferredoxin.

#### Synonyms

AF0464 (gene name); 2,3-bis-O-geranylgeranyl-sn-glycerol 1-phosphate reductase (donor)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.7.11

#### Reaction

a 2,3-bis-(O-phytanyl)-sn-glycero-phospholipid + 16 oxidized ferredoxin [iron-sulfur] cluster = a 2,3-bis-(O-geranylgeranyl)-sn-glycero-phospholipid + 16 reduced ferredoxin [iron-sulfur] cluster + 16 H<sup>+</sup>

#### 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.