

2,3-bis-O-geranylgeranyl-sn-glycerol 1-phosphate reductase [NAD(P)H]

Cat. No. EXWM-1273

Lot. No. (See product label)

Introduction

Description

A flavoprotein (FAD). The enzyme from the archaeon *Thermoplasma acidophilum* is involved in the biosynthesis of membrane lipids. In vivo the reaction occurs in the reverse direction with the formation of 2,3-bis-O-phytanyl-sn-glycerol 1-phosphate. cf. EC 1.3.7.11, 2,3-bis-O-geranylgeranyl-sn-glycero-phospholipid reductase.

Synonyms

digeranylgeranylglycerophospholipid reductase; Ta0516m (gene name); DGGGPL reductase; 2,3-digeranylgeranylglycerophospholipid reductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.1.101

Reaction

2,3-bis-(O-phytanyl)-sn-glycerol 1-phosphate + 8 NAD(P)⁺ = 2,3-bis-(O-geranylgeranyl)-sn-glycerol 1-phosphate + 8 NAD(P)H + 8 H⁺

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.