

(E)-4-hydroxy-3-methylbut-2-enyl-diphosphate synthase (flavodoxin)

Cat. No. EXWM-1098

Lot. No. (See product label)

Introduction

Description

A bacterial iron-sulfur protein that contains a [4Fe-4S] cluster. Forms part of an alternative non-mevalonate pathway for isoprenoid biosynthesis that is found in most bacteria. Plants and cyanobacteria have a similar enzyme that utilizes ferredoxin rather than flavodoxin (cf. EC 1.17.7.1).

Synonyms

4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ambiguous); (E)-4-hydroxy-3-methylbut-2-en-1-yl-diphosphate:protein-disulfide oxidoreductase (hydrating) (incorrect); (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (ambiguous); ispG (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.17.7.3

Reaction

(E)-4-hydroxy-3-methylbut-2-en-1-yl diphosphate + H₂O + oxidized flavodoxin = 2-C-methyl-D-erythritol 2,4-cyclodiphosphate + reduced flavodoxin

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.