

## terpentedienyl-diphosphate synthase

Cat. No. EXWM-5616

Lot. No. (See product label)

### Introduction

#### Description

Requires Mg<sup>2+</sup>. Contains a DXDD motif, which is a characteristic of diterpene cyclases whose reactions are initiated by protonation at the 14,15-double bond of geranylgeranyl diphosphate (GGDP). The triggering proton is lost at the end of the cyclization reaction. The product of the reaction, terpentedienyl diphosphate, is the substrate for EC 4.2.3.36, terpenetriene synthase and is a precursor of the diterpenoid antibiotic terpentecin.

#### Synonyms

terpentedienol diphosphate synthase; Cyc1; clerodadienyl diphosphate synthase; terpentedienyl-diphosphate lyase (decyclizing)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 5.5.1.15

#### Reaction

geranylgeranyl diphosphate = terpentedienyl 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.