

(-)-bornyl diphosphate synthase

Cat. No. EXWM-5623

Lot. No. (See product label)

Introduction

Description

Requires Mg²⁺. The enzyme from *Tanacetum vulgare* (tansy) can also use (3S)-linalyl diphosphate or more slowly neryl diphosphate in vitro. The reaction proceeds via isomerization of geranyl diphosphate to (3S)-linalyl diphosphate. The oxygen and phosphorus originally linked to C-1 of geranyl diphosphate end up linked to C-2 of (-)-bornyl diphosphate. cf. EC 5.5.1.8 (+)-bornyl diphosphate synthase.

Synonyms

bornyl pyrophosphate synthase (ambiguous); bornyl pyrophosphate synthetase (ambiguous); (-)-bornyl pyrophosphate cyclase; bornyl diphosphate synthase; geranyl-diphosphate cyclase (ambiguous); (-)-bornyl-diphosphate lyase (decyclizing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 5.5.1.22

CAS No.

110639-17-3

Reaction

geranyl diphosphate = (-)-bornyl 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.