

## α-bisabolene synthase

Cat. No. EXWM-5196

Lot. No. (See product label)

## Introduction

- **Description** This cytosolic sesquiterpenoid synthase requires a divalent cation cofactor (Mg2+ or, to a lesser extent, Mn2+) to neutralize the negative charge of the diphosphate leaving group. While unlikely to encounter geranyl diphosphate (GDP) in vivo as it is localized to plastids, the enzyme can use GDP as a substrate in vitro to produce (+)-(4R)-limonene [cf. EC 4.2.3.20, (R)-limonene synthase]. The enzyme is induced as part of a defense mechanism in the grand fir Abies grandis as a response to stem wounding.
- *Synonyms* bisabolene synthase

## **Product Information**

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.38
Reaction	(2E,6E)-farnesyl diphosphate = (E)- $\alpha$ -bisabolene + 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.