

α-bisabolene synthase

Cat. No. EXWM-5196

Lot. No. (See product label)

Introduction

Description

This cytosolic sesquiterpenoid synthase requires a divalent cation cofactor (Mg^{2+} or, to a lesser extent, Mn^{2+}) 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)-α-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.