

(R)-limonene synthase

Cat. No. EXWM-5177

Lot. No. (See product label)

Introduction

Description

Forms the first step of carvone biosynthesis in caraway. The enzyme from *Carum carvi* (caraway) seeds requires a divalent metal ion (preferably Mn^{2+}) for catalysis. This enzyme occurs in Citrus, *Carum* (caraway) and *Anethum* (dill); (-)-limonene, however, is made in the fir, *Abies*, and mint, *Mentha*, by EC 4.2.3.16, (4S)-limonene synthase.

Synonyms

(+)-limonene synthase; geranyldiphosphate diphosphate lyase [(+)-(R)-limonene-forming]; geranyl-diphosphate diphosphate-lyase [cyclizing, (+)-(4R)-limonene-forming]

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.3.20

CAS No.

155807-65-1

Reaction

geranyl diphosphate = (R)-limonene + 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.