

nephthenol synthase

Cat. No. EXWM-5163

Lot. No. (See product label)

Introduction

Description

Requires Mg²⁺. Two isozymes with this activity were isolated from the bacterium *Streptomyces* sp. SANK 60404. The enzyme encoded by the DtcycA gene also produces cembrene C (see EC 4.2.3.148, cembrene C synthase), while the enzyme encoded by the DtcycB gene also produces (R)-cembrene A and (1S,4E,8E,12E)-2,2,5,9,13-pentamethylcyclopentadeca-4,8,12-trien-1-ol (see EC 4.2.3.150, cembrene A synthase, and EC 4.2.3.151, pentamethylcyclopentadecatrienol synthase).

Synonyms

DtcycA (gene name); DtcycB (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.3.149

Reaction

geranylgeranyl diphosphate + H₂O = (R)-nephthenol + 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.