Creative Enzymes®

aristolochene synthase

Cat. No. EXWM-5253

Lot. No. (See product label)

Introduction

Description The initial internal cyclization produces the monocyclic intermediate germacrene A; further cyclization and methyl transfer converts the intermediate into aristolochene. While in some species germacrene A remains as an enzyme-bound intermediate, it has been shown to be a minor product of the reaction in Penicillium roqueforti (see also EC 4.2.3.23, germacrene-A synthase). The enzyme from Penicillium roqueforti requires Mg2+. Mn2+ can partially substitute, at low concentrations. Aristolochene is the likely parent compound for a number of sesquiterpenes produced by filamentous fungi.

Synonyms sesquiterpene cyclase; trans,trans-farnesyl diphosphate aristolochene-lyase; trans,trans-farnesyl-diphosphate diphosphate-lyase (cyclizing, aristolochene-forming)

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.2.3.9

CAS No. 94185-89-4

Reaction (2E,6E)-farnesyl diphosphate = aristolochene + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.