Creative Enzymes®

(+)-α-pinene synthase

Cat. No. EXWM-5134

Lot. No. (See product label)

Introduction

Description	Cyclase I of Salvia officinalis (sage) gives about equal parts (+)-α-pinene and (+)-camphene, whereas cyclase III gives about equal parts of (+)-α-pinene and (+)-β-pinene. (3R)-Linalyl diphosphate can also be used by the enzyme in preference to (3S)-linalyl diphosphate. The 4-pro-R-hydrogen of geranyl diphosphate is lost. Requires Mg2+ (preferred to Mn2+). With synthase II of Pinus taeda (loblolly pine) (+)-α-pinene was the only product. Requires Mn2+ (preferred to Mg2+). See also EC 4.2.3.122, (+)-β-pinene synthase, and EC 4.2.3.116, (+)-camphene synthase.
Synonyms	(+)-α-pinene cyclase; cyclase I

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.121
Reaction	geranyl diphosphate = (+)-α-pinene + 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 ℃.