Creative Enzymes®

neoabietadiene synthase

Cat. No. EXWM-5146

Lot. No. (See product label)

Introduction

Description	Isolated from Abies grandis (grand fir). This class I enzyme forms about equal proportions of abietadiene, levopimaradiene and neoabietadiene. See also EC 4.2.3.18, abieta-7,13-diene synthase and EC 4.2.3.32, levopimaradiene synthase. An X-ray study of this multifunctional enzyme showed that the class I activity is in the α domain, while (+)-copalyl diphosphate synthase activity (EC 5.5.1.12, a class II activity) is in the β and γ domains. In Pinus taeda (loblolly pine) the major product is levopimaradiene, with less abietadiene and neoabietadiene.
Synonyms	AgAS; PtTPS-LAS

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.132
Reaction	(+)-copalyl diphosphate = neoabietadiene + 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 ℃.