Creative Enzymes®

abieta-7,13-diene hydroxylase

Cat. No. EXWM-0707

Lot. No. (See product label)

Introduction

Description	A heme-thiolate protein (P-450). This enzyme catalyses a step in the pathway of abietic acid biosynthesis. The activity has been demonstrated in cell-free stem extracts of Abies grandis (grand fir) and Pinus contorta (lodgepole pine). The enzyme is localized in the microsomal fraction and requires both oxygen and NADPH. Inhibition by carbon monoxide and several substituted N-heterocyclic inhibitors suggests that the enzyme is a cytochrome P-450-dependent monooxygenase. Activity is induced by wounding of the plant tissue.
Synonyms	abietadiene hydroxylase (ambiguous)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.108
Reaction	abieta-7,13-diene + NADPH + H+ + O2 = abieta-7,13-dien-18-ol + NADP+ + H2O
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 ℃.