

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 $\text{abieta-7,13-diene} + \text{NADPH} + \text{H}^+ + \text{O}_2 = \text{abieta-7,13-dien-18-ol} + \text{NADP}^+ + \text{H}_2\text{O}$

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.