

## 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<sup>+</sup> + O<sub>2</sub> = abieta-7,13-dien-18-ol + NADP<sup>+</sup> + H<sub>2</sub>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.