

## abieta-7,13-dien-18-ol hydroxylase

Cat. No. EXWM-0708

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), and the gene encoding the enzyme has been identified in Pinus taeda (loblolly pine). The recombinant enzyme catalyses the oxidation of multiple diterpene alcohol and aldehydes, including levopimaradienol, isopimara-7,15-dienol, isopimara-7,15-dienol, dehydroabietadienol and dehydroabietadienal. It is not able to oxidize abietadiene.

Synonyms CYP720B1; PtAO; abietadienol hydroxylase (ambiguous)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.109

**Reaction** abieta-7,13-dien-18-ol + NADPH + H+ + O2 = abieta-7,13-dien-18-al + NADP+ + 2 H2O (overall reaction);

(1a) abieta-7,13-dien-18-ol + NADPH + H+ + O2 = abieta-7,13-dien-18,18-diol + NADP+ + H2O; (1b)

abieta-7,13-dien-18,18-diol = abieta-7,13-dien-18-al + H2O (spontaneous)

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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