

9β-pimara-7,15-diene oxidase

Cat. No. EXWM-0744

Lot. No. (See product label)

Introduction

Description

Requires cytochrome P-450. A rice, *Oryza sativa*, enzyme involved in the phytoalexin momilactone biosynthesis. It also acts similarly on 9β-stemod-13(17)-ene.

Synonyms

CYP99A3

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.144

Reaction

9β-pimara-7,15-diene + 3 O₂ + 3 NADPH + 3 H⁺ = 9β-pimara-7,15-dien-19-oate + 3 NADP⁺ + 4 H₂O (overall reaction); (1a) 9β-pimara-7,15-diene + O₂ + NADPH + H⁺ = 9β-pimara-7,15-dien-19-ol + NADP⁺ + H₂O; (1b) 9β-pimara-7,15-dien-19-ol + O₂ + NADPH + H⁺ = 9β-pimara-7,15-dien-19-al + NADP⁺ + 2 H₂O; (1c) 9β-pimara-7,15-dien-19-al + O₂ + NADPH + H⁺ = 9β-pimara-7,15-dien-19-oate + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.