

amorpha-4,11-diene 12-monooxygenase

Cat. No. EXWM-0758

Lot. No. (See product label)

Introduction

Description

A heme-thiolate protein (P-450). Cloned from the plant *Artemisia annua* (sweet wormwood). Part of the biosynthetic pathway of artemisinin.

Synonyms

CYP71AV1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.158

Reaction

amorpha-4,11-diene + 3 O₂ + 3 NADPH + 3 H⁺ = artemisinate + 3 NADP⁺ + 4 H₂O (overall reaction); (1a) amorpha-4,11-diene + O₂ + NADPH + H⁺ = artemisinic alcohol + NADP⁺ + H₂O; (1b) artemisinic alcohol + O₂ + NADPH + H⁺ = artemisinic aldehyde + NADP⁺ + 2 H₂O; (1c) artemisinic aldehyde + O₂ + NADPH + H⁺ = artemisinate + 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.