Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.