amorpha-4,11-diene synthase

Cat. No. EXWM-5181

Lot. No. (See product label)

Introduction

Description	Requires Mg2+ and Mn2+ for activity. This is a key enzyme in the biosynthesis of the antimalarial endoperoxide artemisinin. Catalyses the formation of both olefinic [e.g. amorpha-4,11-diene, amorpha-4,7(11)-diene, γ-humulene and β-sesquiphellandrene] and oxygenated (e.g. amorpha-4-en-7-ol) sesquiterpenes, with amorpha-4,11-diene being the major product. When geranyl diphosphate is used as a substrate, no monoterpenes are produced.
Synonyms	amorphadiene synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.24
CAS No.	259213-60-0
Reaction	(2E,6E)-farnesyl diphosphate = amorpha-4,11-diene + diphosphate
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 ℃.