Creative Enzymes®

bisdemethoxycurcumin synthase

Cat. No. EXWM-2157

Lot. No. (See product label)

Introduction

Description	A polyketide synthase characterized from the plant Oryza sativa (rice) that catalyses the formation of the C6-C7-C6 diarylheptanoid scaffold of bisdemethoxycurcumin. Unlike the process in the plant Curcuma longa (turmeric), where the conversion is carried out via a diketide intermediate by two different enzymes (EC 2.3.1.218, phenylpropanoylacetyl-CoA synthase and EC 2.3.1.217, curcumin synthase), the diketide intermediate formed by this enzyme remains within the enzyme's cavity and is not released to the environment.
Synonyms	CUS; curcuminoid synthase (ambiguous)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.211
Reaction	2 4-coumaroyl-CoA + malonyl-CoA + H2O = 3 CoA + bisdemethoxycurcumin + 2 CO2
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 ℃.