

## 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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