Creative Enzymes®

demethoxycurcumin synthase

Cat. No. EXWM-2165

Lot. No. (See product label)

Introduction

Description	A polyketide synthase from the plant Curcuma longa (turmeric). Three isoforms exist, CURS1, CURS2 and CURS3. While CURS1 and CURS2 prefer feruloyl-CoA as a starter substrate (cf. EC 2.3.1.217, curcumin synthase), CURS3 can accept 4-coumaroyl-CoA equally well.
Synonyms	CURS3

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.219
Reaction	(1) 4-coumaroyl-CoA + feruloylacetyl-CoA + H2O = 2 CoA + demethoxycurcumin + CO2; (2) 4-coumaroyl-CoA + (4-coumaroyl)acetyl-CoA + H2O = 2 CoA + bisdemethoxycurcumin + 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 ℃.