Creative Enzymes®

delphinidin 3',5'-O-glucosyltransferase

Cat. No. EXWM-2478

Lot. No. (See product label)

Introduction

Description	Ternatins are a group of polyacetylated delphinidin glucosides that conferblue color to the petals of Clitoria ternatea (butterfly pea).This enzyme catalyses two reactions in the biosynthesis of ternatin C5: the conversion of delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside to delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside-3'-O-β-D-glucoside, followed by the conversion of the later to ternatin C5, by transferring two glucosyl groups in a stepwise manner.
Synonyms	UDP-glucose:anthocyanin 3',5'-O-glucosyltransferase; UA3'5'GZ

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.249
Reaction	2 UDP-glucose + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside = 2 UDP + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside-3',5'-di-O-β-D-glucoside (overall reaction); (1a) UDP-glucose + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside = UDP + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside-3'-O-β-D-glucoside; (1b) UDP-glucose + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside-3'-O-β-D-glucoside = UDP + delphinidin 3-O-(6''-O-malonyl)-β-D-glucoside-3',5'-di-O-β-D-glucoside
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 ℃.