

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 confer blue 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

$2 \text{ UDP-glucose} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside} = 2 \text{ UDP} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside-3',5'-di-O-}\beta\text{-D-glucoside}$ (overall reaction); (1a) $\text{UDP-glucose} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside} = \text{UDP} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside-3'-O-}\beta\text{-D-glucoside}$; (1b) $\text{UDP-glucose} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside-3'-O-}\beta\text{-D-glucoside} = \text{UDP} + \text{delphinidin 3-O-(6''-O-malonyl)-}\beta\text{-D-glucoside-3',5'-di-O-}\beta\text{-D-glucoside}$

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