

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