

## flavanoid 3',5'-hydroxylase

Cat. No. EXWM-0896

Lot. No. (See product label)

## Introduction

**Description** A heme-thiolate protein (P-450). The 3',5'-dihydroxyflavanone is formed via the 3'-

hydroxyflavanone. In Petunia hybrida the enzyme acts on naringenin, eriodictyol, dihydroquercetin (taxifolin) and dihydrokaempferol (aromadendrin). The enzyme catalyses the hydroxylation of 5,7,4'-trihydroxyflavanone (naringenin) at either the 3' position to form eriodictyol or at both the 3' and 5' positions to form 5,7,3',4',5'-

pentahydroxyflavanone (dihydrotricetin). The enzyme also catalyses the

hydroxylation of 3,5,7,3',4'-pentahydroxyflavanone (taxifolin) at the 5' position,

forming ampelopsin. NADH is not a good substitute for NADPH.

**Synonyms** flavonoid 3',5'-hydroxylase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.88

*CAS No.* 94047-23-1

**Reaction** a flavanone + 2 NADPH + 2 H+ + 2 O2 = a 3',5'-dihydroxyflavanone + 2 NADP+ +

2 H2O (overall reaction); (1a) a flavanone + NADPH + H+ + O2 = a 3'-

hydroxyflavanone + NADP+ + H2O; (1b) a 3'-hydroxyflavanone + NADPH + H+ +

O2 = a 3',5'-dihydroxyflavanone + NADP+ + H2O

**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.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com