

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.

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