

anthocyanidin reductase [(2S)-flavan-3-ol-forming]

Cat. No. EXWM-1285

Lot. No. (See product label)

Introduction

Description The enzyme, characterized from Vitis vinifera (grape), participates in the flavonoid

biosynthesis pathway. It catalyses the double reduction of anthocyanidins, producing a mixture of (2S,3S)- and (2S,3R)-flavan-3-ols. The enzyme catalyses sequential hydride transfers to C-2 and C-4, respectively. Epimerization at C-3 is achieved by tautomerization that occurs between the two hydride transfers. cf. EC

1.3.1.77, anthocyanidin reductase [(2R,3R)-flavan-3-ol-forming].

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.1.112

Reaction (1) a (2S,3R)-flavan-3-ol + 2 NADP+ = an anthocyanidin with a 3-hydroxy group + 2

NADPH + H+; (2) a (2S,3S)-flavan-3-ol + 2 NADP+ = an anthocyanidin with a 3-

1/1

hydroxy group + 2 NADPH + H+

NotesThis 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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