Creative Enzymes®

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-hydroxy group + 2 NADPH + H+
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.