

## leucoanthocyanidin reductase

Cat. No. EXWM-1081

Lot. No. (See product label)

### Introduction

#### Description

The enzyme catalyses the synthesis of catechin, catechin-4 $\beta$ -ol (leucocyanidin) and the related flavan-3-ols afzelechin and gallocatechin, which are initiating monomers in the synthesis of plant polymeric proanthocyanidins or condensed tannins. While 2,3-trans-3,4-cis-leucocyanidin is the preferred flavan-3,4-diol substrate, 2,3-trans-3,4-cis-leucodelphinidin and 2,3-trans-3,4-cis-leucopelargonidin can also act as substrates, but more slowly. NADH can replace NADPH but is oxidized more slowly.

#### Synonyms

leucocyanidin reductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.17.1.3

#### CAS No.

776323-46-7

#### Reaction

(2R,3S)-catechin + NADP<sup>+</sup> + H<sub>2</sub>O = 2,3-trans-3,4-cis-leucocyanidin + NADPH + H<sup>+</sup>

#### 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.