Creative Enzymes®

dihydroflavonol 4-reductase

Cat. No. EXWM-0124

Lot. No. (See product label)

Introduction

Description This plant enzyme, involved in the biosynthesis of anthocyanidins, is known to act on (+)-dihydrokaempferol, (+)-taxifolin, and (+)-dihydromyricetin, although some enzymes may act only on a subset of these compounds. Each dihydroflavonol is reduced to the corresponding cis-flavan-3,4-diol. NAD+ can act instead of NADP+, but more slowly.

Synonyms dihydrokaempferol 4-reductase; dihydromyricetin reductase; NADPH-dihydromyricetin reductase; dihydroquercetin reductase; DFR (gene name); cis-3,4-leucopelargonidin:NADP+ 4-oxidoreductase; dihydroflavanol 4-reductase (incorrect)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.219

CAS No. 83682-99-9

Reaction a (2R,3S,4S)-leucoanthocyanidin + NADP+ = a (2R,3R)-dihydroflavonol + 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 ℃.