

D-arabinitol dehydrogenase (NADP+)

Cat. No. EXWM-0195

Lot. No. (See product label)

Introduction

Description

The enzyme from the rust fungus *Uromyces fabae* can use D-arabinitol and D-mannitol as substrates in the forward direction and D-xylulose, D-ribulose and, to a lesser extent, D-fructose as substrates in the reverse direction. This enzyme carries out the reactions of both EC 1.1.1.11, D-arabinitol 4-dehydrogenase and EC 1.1.1.250, D-arabinitol 2-dehydrogenase, but unlike them, uses NADP⁺ rather than NAD⁺ as cofactor. D-Arabinitol is capable of quenching reactive oxygen species involved in defense reactions of the host plant.

Synonyms

NADP⁺-dependent D-arabitol dehydrogenase; ARD1p; D-arabitol dehydrogenase 1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.287

Reaction

(1) D-arabinitol + NADP⁺ = D-xylulose + NADPH + H⁺; (2) D-arabinitol + NADP⁺ = D-ribulose + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.