

xanthoxin dehydrogenase

Cat. No. EXWM-0196

Lot. No. (See product label)

Introduction

Description

Requires a molybdenum cofactor for activity. NADP⁺ cannot replace NAD⁺ and short-chain alcohols such as ethanol, isopropanol, butanol and cyclohexanol cannot replace xanthoxin as substrate. Involved in the abscisic-acid biosynthesis pathway in plants, along with EC 1.2.3.14 (abscisic-aldehyde oxidase), EC 1.13.11.51 (9-cis-epoxycarotenoid dioxygenase) and EC 1.14.13.93 [(+)-abscisic acid 8'-hydroxylase]. Abscisic acid is a sesquiterpenoid plant hormone that is involved in the control of a wide range of essential physiological processes, including seed development, germination and responses to stress.

Synonyms

xanthoxin oxidase; ABA2

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.288

CAS No.

129204-37-1

Reaction

xanthoxin + NAD⁺ = abscisic aldehyde + NADH + 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.