

L-aspartate oxidase

Cat. No. EXWM-1472

Lot. No. (See product label)

Introduction

Description

A flavoprotein (FAD). L-Aspartate oxidase catalyses the first step in the de novo biosynthesis of NAD⁺ in some bacteria. O₂ can be replaced by fumarate as electron acceptor, yielding succinate. The ability of the enzyme to use both O₂ and fumarate in cofactor reoxidation enables it to function under both aerobic and anaerobic conditions. Iminosuccinate can either be hydrolysed to form oxaloacetate and NH₃ or can be used by EC 2.5.1.72, quinolinate synthase, in the production of quinolinate. The enzyme is a member of the succinate dehydrogenase/fumarate-reductase family of enzymes.

Synonyms

NadB; Laspo; AO

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.4.3.16

CAS No.

69106-47-4

Reaction

L-aspartate + O₂ = iminosuccinate + H₂O₂

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.