Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.