Creative Enzymes®

quinolinate synthase

Cat. No. EXWM-2810

Lot. No. (See product label)

Introduction

Description	An iron-sulfur protein that requires a [4Fe-4S] cluster for activity. Quinolinate synthase catalyses the second step in the de novo biosynthesis of NAD+ from aspartate in some bacteria, with EC 1.4.3.16 (L-aspartate oxidase) catalysing the first step and EC 2.4.2.19 [nicotinate-nucleotide diphosphorylase (carboxylating)] the third step. In Escherichia coli, two of the residues that are involved in the [4Fe-4S] cluster binding appear to undergo reversible disulfide-bond formation that regulates the activity of the enzyme.
Synonyms	NadA; QS; quinolinate synthetase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.72
Reaction	glycerone phosphate + iminosuccinate = pyridine-2,3-dicarboxylate + 2 H2O + phosphate
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 ℃.