Creative Enzymes®

3-dehydroquinate synthase II

Cat. No. EXWM-1457

Lot. No. (See product label)

Introduction

Description	The enzyme, which was isolated from the archaeon Methanocaldococcus jannaschii, plays a key role in an alternative pathway for the biosynthesis of 3-dehydroquinate (DHQ), an intermediate of the canonical pathway for the biosynthesis of aromatic amino acids. The enzyme catalyses a two-step reaction - an oxidative deamination, followed by cyclization.
Synonyms	DHQ synthase II; MJ1249 (gene name); aroB' (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.4.1.24
Reaction	2-amino-3,7-dideoxy-D-threo-hept-6-ulosonate + H2O + NAD+ = 3-dehydroquinate + NH3 + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.