Creative Enzymes®

alcohol dehydrogenase (azurin)

Cat. No. EXWM-0438

Lot. No. (See product label)

Introduction

Description	A soluble, periplasmic PQQ-containing quinohemoprotein. Also contains a single heme c. Occurs in Comamonas and Pseudomonas. Does not require an amine activator. Oxidizes a wide range of primary and secondary alcohols, and also aldehydes and large substrates such as sterols; methanol is not a substrate. Usually assayed with phenazine methosulfate or ferricyanide. Like all other quinoprotein alcohol dehydrogenases it has an 8-bladed propeller structure, a calcium ion bound to the PQQ in the active site and an unusual disulfide ring structure in close proximity to the PQQ.
Synonyms	type II quinoprotein alcohol dehydrogenase; quinohaemoprotein ethanol dehydrogenase; QHEDH; ADHIIB

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.9.1
Reaction	a primary alcohol + azurin = an aldehyde + reduced azurin
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 ℃.