

## alcohol dehydrogenase (azurin)

Cat. No. EXWM-0438

Lot. No. (See product label)

### Introduction

#### Description

A soluble, periplasmic PQQ-containing quinoxinoprotein. 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 quinoxinoprotein 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 quinoxinoprotein alcohol dehydrogenase; quinoxinohaemoprotein 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.