

## alcohol dehydrogenase (cytochrome c)

Cat. No. EXWM-0390

Lot. No. (See product label)

## Introduction

**Description** A periplasmic PQQ-containing quinoprotein. Occurs in Pseudomonas and Rhodopseudomonas. The

enzyme from Pseudomonas aeruginosa uses a specific inducible cytochrome c550 as electron acceptor. Acts on a wide range of primary and secondary alcohols, but not methanol. It has a homodimeric structure [contrasting with the heterotetrameric structure of EC 1.1.2.7, methanol dehydrogenase (cytochrome c)]. It is routinely assayed with phenazine methosulfate as electron acceptor. Activity is stimulated by ammonia or amines. 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 I quinoprotein alcohol dehydrogenase; quinoprotein ethanol dehydrogenase

## **Product Information**

Form Liquid or lyophilized powder

**EC Number** EC 1.1.2.8

**Reaction** a primary alcohol + 2 ferricytochrome c = an aldehyde + 2 ferrocytochrome <math>c + 2 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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