

## alcohol dehydrogenase (nicotinoprotein)

Cat. No. EXWM-0464

Lot. No. (See product label)

## Introduction

**Description** Contains Zn2+. Nicotinoprotein alcohol dehydrogenases are unique medium-chain

dehydrogenases/reductases (MDR) alcohol dehydrogenases that have a tightly bound NAD+/NADH cofactor that does not dissociate during the catalytic process. Instead, the cofactor is regenerated by a second substrate or electron carrier. While the in vivo electron acceptor is not known, N,N-dimethyl-4-nitrosoaniline (NDMA), which is reduced to 4-(hydroxylamino)-N,N-dimethylaniline, can serve this function in vitro.The enzyme from the Gram-positive bacterium Amycolatopsis methanolica can accept many primary alcohols as substrates, including

benzylalcohol.

**Synonyms** NDMA-dependent alcohol dehydrogenase; nicotinoprotein alcohol dehydrogenase;

np-ADH; ethanol:N,N-dimethyl-4-nitrosoaniline oxidoreductase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.99.36

**Reaction** ethanol + acceptor = acetaldehyde + reduced acceptor

**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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