

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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