

Product information



Alcohol dehydrogenase, 1- 325aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0433

Full name: Alcohol dehydrogenase [NADP+]

NCBI Accession No.: NP_006057

Synonyms: AKR1A1, ALDR1, ALR, ARM, DD3

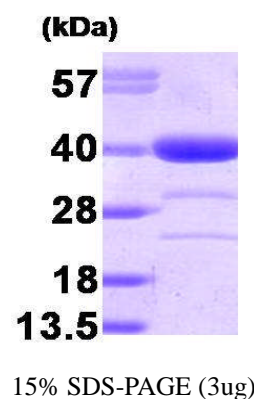
Description: Alcohol dehydrogenase [NADP+] (AKR1A1) is a member of the aldo/keto reductase superfamily and catalyzes the NADPH-dependent reduction of a variety of aromatic and aliphatic aldehydes to their corresponding alcohols. This protein is closely related (65% identity) to aldose reductase, an enzyme involved in the pathogenesis of some diabetic and galactosemic complications. It plays a role in the activation of procarcinogens, such as polycyclic aromatic hydrocarbon trans-dihydrodiols, and in the metabolism of various xenobiotics and drugs, including the anthracyclines doxorubicin (DOX) and daunorubicin (DAUN). Recombinant human Alcohol dehydrogenase was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 50mM NaCl,
10% glycerol

Molecular Weight: 36.5 kDa (325aa)

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

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MAASCVLLHT GQKMPL IGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL KEDVGPGKAV PREELFVTSK LWNTKHHPED  
VEPALRKTLA DLQLEYLDLY LMHWPYAFER GDNPPKKNAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNRSRQID DILSVASVRP  
AVLQVECHPY LAQNEL I AHC QARGLEVTAY SPLGSSDRAW RDPDEPVLL E EPVVLALAEKYGRSPAQILL RWQVQRKVIC IPKSITPSRI  
LQNIKVFDFE FSPEEMKQLN ALNKNWRYIV PMLTVDGKRV PRDAGHPLYP FNDPY
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General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Bohren KM., *et al.* (1989) *J Biol Chem.* 264(16): 9547-51.

Vander Jaqt DL., *et al.* (1990) *J Biol Chem.* 265(19):10912-8.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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