

Recombinant Human Alcohol Dehydrogenase 1A (class I), Alpha Polypeptide, His-tagged

Cat. No. ADH1A-1917H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanADH1A protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.
Species	Human
Description	ADH1Abelongs to the alcohol dehydrogenase family. ADH1A is a monomorphic andpredominant in fetal and infant livers, becoming less active in gestation andonly weakly active during adulthood. ADH1A plays a major role in ethanolmetabolism. With the coenzyme NAD, ADH catalyzes the reversible conversion oforganic alcohols to ketones or aldehydes.
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
Molecular Weight	42 kDa(395aa) confirmed by MALDI-TOF
Purity	> 90%by SDS-PAGE
Concentration	1 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKA HEVRIK MVAVGICGTD DHVVS GMTMVTPLPVILGHEAAGIVESVGEVTTVKPGDKV IPLAIPQCGK CRICKNPESN YCLKNDVSNP QGTLQDGT SR FTCRRKPIHH FLGIST FSQYTVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVNVAKV TPGSTCAVFG L

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GGVGLSAIM GCKAAGAARIIVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEM
 TDGGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSMNPMLLL TG
 RTWKGAIL GGFKSKECVPKLVADFMACK FSLDALITHV LPFEKINEGF DLLHSGKSI
 R TILMF

Storage

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

Pathways

Biological oxida; Drug metabolism-cytochromeP450; Ethanol oxidation; Fatty Acid Omega Oxidation; Fatty acid metabo;Glycolysis / Gluconeogenesis; Metabolic pathways; Metabolism; Metabolism ofxenobiotics by cytochrome P450; Phase 1- Functionalization of compounds;Retinol metabolism; Tyrosine metabolism; Vitamin A and carotenoid metabolism

GENE INFORMATION

Gene Name

ADH1A alcohol dehydrogenase 1A(class I), alpha polypeptide [Homo sapiens]

Official Symbol

ADH1A

Synonyms

ADH1A; alcohol dehydrogenase 1A (class I),alpha polypeptide; ADH1; alcohol dehydrogenase 1A; ADH, alphasubunit; aldehyde reductase; alcohol dehydrogenase subunit alpha; alcoholdehydrogenase 1 (class I), alpha polypeptide; EC 1.1.1.1; Alcohol dehydrogenase 1A

Gene ID

124

mRNA Refseq

NM_000667

Protein Refseq

NP_000658

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MIM	103700
UniProt ID	P07327
Chromosome Location	4q23
Function	alcohol dehydrogenase activity; metal ionbinding; nucleotide binding; oxidoreductase activity; protein binding; zincion binding
PDB rendering based on 1deh.	

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