

Recombinant Human Alcohol Dehydrogenase 1C (class I), Gamma Polypeptide, His-tagged

Cat. No. ADH1C-2480H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADH1C protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-375aa
Description	ADH1C belongs to the zinc-containing alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. ADH1 is a monomorphic and predominant in fetal and infant livers, becoming less active in gestation and only weakly active during adulthood.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl.
Molecular Mass	42.4kDa (399aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS HMSTAGK VIKCKAAVLW ELKKPFSIEE VEVAPPKAHE VRIKMVAAGI CRSDEHVVSG NLVTPLPVIL GHEAAGIVES VGEGVTTVKP GDKVIPLFTP QCGKCRICKN PESNYCLKND LGNPRGTLQD GTRRFTCSGK PIHFFVGVST FSQYTVVDEN AVAKIDAASP LEKVCLIGCG FSTGYGSAVK VAKVTPGSTC AVFGLGGVGL SVVMGCKAAG AARIIVDIN

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KDKFAKAKEL GATECINPQD YKKPIQEVLK EMTDGGVDFS FEVIGRLDTM
 MASLLCCEA CGTSVIVGVP PDSQNLSINP MLLLTGRTWK GAIFGGFKSK
 ESVPKLVADF MAKKFSLDAL ITNILPFEKI NEGFDLLRSG KSIRTVLTF

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ADH1C alcohol dehydrogenase 1C \(class I\), gamma polypeptide \[Homo sapiens \]](#)

Official Symbol ADH1C

Synonyms ADH1C; alcohol dehydrogenase 1C (class I), gamma polypeptide; ADH3; alcohol dehydrogenase 1C; ADH, gamma subunit; aldehyde reductase; alcohol dehydrogenase subunit gamma; alcohol dehydrogenase 3 (class I), gamma polypeptide;

Gene ID [126](#)

mRNA Refseq [NM_000669](#)

Protein Refseq [NP_000660](#)

MIM [103730](#)

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UniProt ID	P00326
Chromosome Location	4q23
Pathway	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
Function	alcohol dehydrogenase (NAD) activity; metal ion binding; nucleotide binding; oxidoreductase activity; zinc ion binding;

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