

Recombinant Human ADH1C

Cat. No. ADH1C-27094TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ADH1C with N terminal proprietary tag. Predicted MW 67.32 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	375 amino acids
Description	This gene encodes class I alcohol dehydrogenase, gamma subunit, which is a member of the 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. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and plays a major role in ethanol catabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster.
Molecular Weight	67.320kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSTAGKVIKCKAAVLWELKKPFSIEEVEVAPPKAHEVRIK MVAAGICRSDEHVVSGN LVTPLPVILGHEAAGIVESVGEV VTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKN DLGNP RGTLQDGTTRRFTCSGKPIHHFVGVSTFSQYTVVDENAVAK IDAASPLEKVC LIGCGFSTGYGSAVKVAKVTPGSTCAVFG LGGVGLSVVMGCKAAGAARIIVDINKD KFAKAKELGATE CINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASL LCCH EACGTSVIVGVPPDSQNLNINPMLLLTGRTWKGAIF GGFKSKESVPKLVADFMAKKF SLDALITNILPFEKINEGF DLLRSGKSIRTVLTF
Sequence Similarities	Belongs to the zinc-containing alcohol dehydrogenase family.
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;
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;
Function	alcohol dehydrogenase (NAD) activity; metal ion binding; nucleotide binding; oxidoreductase activity; zinc ion binding;

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