

# Recombinant Human ADH1C

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant full length Human ADH1C with N terminal proprietary tag. Predicted MW 67.32 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 375 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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. |
| <b>Molecular Weight</b> | 67.320kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage buffer</b>   | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                |
| <b>Sequences of amino acids</b> | MSTAGKVIKCKAAVLWELKKPFSIEEVEVAPPKAHEVRIK MVAAGICRSDEHVVSGN<br>LVTPLPVILGHEAAGIVESVGEG VTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKN<br>DLGNP RGTLQDGTTRFTCSGKPIHHFVGVSTFSQYTVVDENAVAK IDAASPLEKVC<br>LIGCGFSTGYGSAVKVAKVTPGSTCAVFG LGGVGLSVVMGCKAAGAARIIVDINKD<br>KFAKAKELGATE CINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASL LCCH<br>EACGTSVIVGVPPDSQNLSINPMLLLTGRTWKGAIF GGFKSKESVPKLVAADFMAKKF<br>SLDALITNILPFEKINEGF DLLRSGKSIRTVLTF |
| <b>Sequence Similarities</b>    | Belongs to the zinc-containing alcohol dehydrogenase family.                                                                                                                                                                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>                | ADH1C alcohol dehydrogenase 1C (class I), gamma polypeptide [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>          | ADH1C                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>                 | ADH1C; alcohol dehydrogenase 1C (class I), gamma polypeptide; ADH3; alcohol dehydrogenase 1C;                                                                                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>                  | 126                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>              | NM_000669                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>           | NP_000660                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>                      | 103730                                                                                                                                                                                                                                                                                                                                                                                                                   |

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| <b>Uniprot ID</b>          | P00326                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 4q23                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | alcohol dehydrogenase (NAD) activity; metal ion binding; nucleotide binding; oxidoreductase activity; zinc ion binding;                                                                                                                                                              |

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