

## Recombinant Human ADH1C Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** ADH1C-100H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | ADH1C MS Standard C13 and N15-labeled recombinant protein (NP_000660) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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 to acetaldehyde, thus playing 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. An association between ADH1C polymorphism and alcohol dependence has not been established. |
| <b>Molecular Mass</b>   | 39.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MSTAGKVIKCKAAVLWELKKPFSIEEVEVAPPKAHEVRIKMVAAGICRSDEHVVSGN<br>LVTPLPVILGHEAAGIVESVGEGVTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKN<br>DLGNPRGTLQDGTRRFTCSGKPIHHFVGTVSTFSQYTVVDENAVAKIDAASPLEKVCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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IGCGFSTGYGSAVKVAKVTPGSTCAVFGLGGVGLSVVMGCKAAGAARIIVDINKDK  
 FAKAKELGATECINPQDYKKPIQEVLKEMTDGGVDFSFEVIGQLDTMMASLLCCHEA  
 CGTSVIVGVPPDSQNLSINPMLLLTGRTWKGAIFGGFKSKESVPKLVADFMAKKFSL  
 DALITNVLPFEKINEGFDLLRSGKSIRTVLTFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

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

**Official Symbol** ADH1C

**Synonyms** ADH1C; alcohol dehydrogenase 1C (class I), gamma polypeptide; ADH3; alcohol dehydrogenase 1C; ADH, gamma subunit; alcohol dehydrogenase 3 (class I), gamma polypeptide; aldehyde reductase; EC 1.1.1.1

**Gene ID** 126

**mRNA Refseq** NM\_000669

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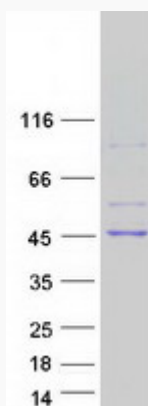
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**Protein Refseq** NP\_000660

**MIM** 103730

**UniProt ID** P00326

**SDS-PAGE**



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