

## Recombinant Human ADH5 Protein, His-tagged

**Cat. No.** ADH5-26H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ADH5 Protein is produced by E. coli expression system. This protein is fused with a His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-374 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | ADH5 is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis. Recombinant human ADH5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH7.5) containing 20% glycerol 0.1M NaCl, 1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 42.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSHMANEVI KCKAAVAWEA GKPLSIEEIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

VAPPKAHEVR IKIATAVCH TDAYTLSGAD PEGCFPVILG HEGAGIVESV  
 GEGVTKLKAG DTVIPLYIPQ  
 CGECKFCLNP KTNLCQKIRV TQGKGLMPDG TSRFTCKGKT ILHYMGSTSF  
 SEYTVVADIS VAKIDPLAPL DKVCLLGCGI STGYGAAVNT AKLEPGSVCA  
 VFGLGGVGLA VIMGCKVAGA  
 SRIIGVDINK DKFARAKEFG ATECINPQDF SKPIQEVILIE MTDGGVDYSF  
 ECIGNVKVMR AALEACHKGW GVSVVVGVA SGEIATRPF QLVGTGRTWKG  
 TAFGGWKSVE SVPKLVSEYM SKKIKVDEFV THNLSFDEIN KAFELMHSGK  
 SIRTVVKI

**Purity** > 90% by SDS - PAGE

**Notes** For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

**Storage** Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** ADH5 alcohol dehydrogenase 5 (class III), chi polypeptide [ Homo sapiens ]

**Official Symbol** ADH5

**Synonyms** ADH5; ADH 3; ADHX; formaldehyde dehydrogenase; FDH; ADH-3; FALDH; GSNOR; GSH-FDH;

**Gene ID** 128

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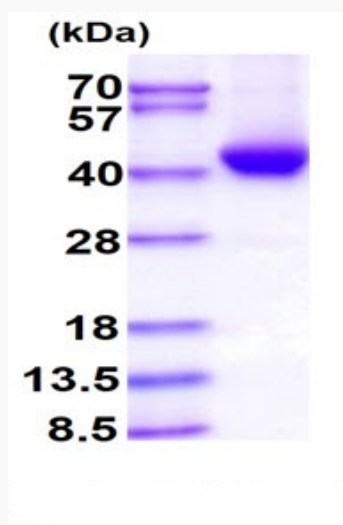
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**mRNA Refseq** [NM\\_000671](#)

**Protein Refseq** [NP\\_000662](#)

**MIM** [103710](#)

**UniProt ID** [P11766](#)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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