

# Recombinant Human Alcohol Dehydrogenase 6 (class V), His-tagged

**Cat. No.** ADH6-2405H    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Recombinant humanADH6 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>             | ADH6, also known asalcohol dehydrogenase 6, is a member of the alcohol dehydrogenase family.Members of this family metabolize a wide variety of substrates, includingethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipidperoxidation products. This protein is expressed in the stomach as well as inthe liver, and it contains a glucocorticoid response element upstream of its5' UTR, which is a steroid hormone receptor binding site |
| <b>Form</b>                    | Liquid. 20mMTris-HCl buffer (pH8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b>        | 42.4 kDa (399aa),confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                  | > 90% by SDS -PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>           | 0.5mg/ml (determinedby Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequences of aminoacids</b> | MGSSHHHHHHSSGLVPRGSH MGSHMSTTGQ VIRCKAAILW KPGAPFSIEE<br>VEVAPPKAKE VRIKVVATGL CGTEMKVLGSKHLDLLYPTI LGHEGAGIVE                                                                                                                                                                                                                                                                                                                                               |

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SIGEGVSTVK PGDKVITLFL PQCGETSCL NSEGNFCIQF  
 KQSKTQLMSDGTSRFTCKGK SIYHFGNTST FCEYTVIKEI SVAKIDAVAP  
 LEKVCLISCG FSTGFGAAIN TAKVTPGSTCAVFGLGGVGL SVVMGCKAAG  
 AARIIGVDVN KEKFKKAQEL GATECLNPQD LKKPIQEVLF  
 DMTDAGIDFCFEAIGNLDVL AAALASCNES YGVCVVVGVL PASVQLKISG  
 QLFFSGRSLK GSVFGGWKSQ QHIPKLVADYMAEKLNDPL ITHTLNLDKI  
 NEAVELMKTG KCIRCILL

**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.

**GENE INFORMATION**
**Gene Name**

ADH6 alcohol dehydrogenase 6 (class V) [ Homo sapiens ]

**Official Symbol**

ADH6

**Synonyms**

ADH6; alcohol dehydrogenase 6(class V); alcohol dehydrogenase 6; ADH 5; ADH 5;  
 ADH 6; Alcoholdehydrogenase 6 (class V); Alcohol dehydrogenase 6; Aldehyde  
 reductase; ClassV alcohol dehydrogenase 6; UDP  
 GLUCURONOSYLTRANSFERASE 2B10 PRECURSOR,MICROSOMAL;  
 OTTHUMP00000161647; OTTHUMP00000161648;  
 OTTHUMP00000161649; OTTHUMP00000220107; aldehyde reductase; ADH-5

**Gene ID**

130

**mRNA Refseq**

NM\_001102470

**Protein Refseq**

NP\_001095940

**MIM**

103735

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|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Uniprot ID          | P28332                                                                                                                                                                                                                                                                          |
| Chromosome Location | 4q23                                                                                                                                                                                                                                                                            |
| Pathway             | Biological oxidations,organism-specific biosystem; Drug metabolism - cytochrome P450,organism-specific biosystem; Drug metabolism - cytochrome P450, conservedbiosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid OmegaOxidation, organism-specific biosystem |
| Function            | alcohol dehydrogenase (NAD)activity; electron carrier activity; metal ion binding; nucleotide binding;oxidoreductase activity                                                                                                                                                   |

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