

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

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

SPECIFICATION

Product Overview	Recombinant humanADH6 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography
Species	Human
Source	E.coli
Description	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
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT
Molecular Weight	42.4 kDa (399aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	0.5mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGS HMSTTGQ VIRCKAAILW KPGAPFSIEE 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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