

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 YGVCVVVGV L PASVQLKISG
 QLFFSGRSLK GSVFGGWKS R 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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