

Recombinant Human ADH5 Protein, GST-tagged

Cat. No. ADH5-349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADH5 full-length ORF (AAH14665, 1 a.a. - 374 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes 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. The encoded protein forms a homodimer. 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. The human genome contains several non-transcribed pseudogenes related to this gene. [provided by RefSeq, Oct 2008]
Molecular Mass	66.88 kDa
AA Sequence	MANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLSGADPEG CFPVILGHEGAGIVESVGEGVTKLKAGDTVIPLYIPQCGECKFCLNPKTNLCQKIRVT QGKGLMPDGTSRFTCKGKILHYMGSTSTFSEYTVVADISVAKIDPLAPLDKVCLLGC

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GISTGYGAAVNTAKLEPGSVCAVFGLGGVGLAVIMGCKVAGASRIIGVDINKDKFARA
KEFGATECINPQDFSKPIQEVLIEMTDGGVDYSFECIGNVKVMRAALEACHKGWGV
VVVGVAASGGEIATRPFQLVTGRTWKGTAFGGWKSVESVPKLVSEYMSKKIKVDEF
VTHNLSFDEINKAFELMHSGKSIRTVVKI

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol ADH5

Synonyms ADH5; alcohol dehydrogenase 5 (class III), chi polypeptide; FDH, formaldehyde dehydrogenase; alcohol dehydrogenase class-3; ADH 3; ADHX; formaldehyde dehydrogenase; alcohol dehydrogenase class-III; alcohol dehydrogenase class chi chain; S-(hydroxymethyl)glutathione dehydrogenase; glutathione-dependent formaldehyde dehydrogenase; alcohol dehydrogenase (class III), chi polypeptide; FDH; ADH-3; FALDH; GSNOR; GSH-FDH;

Gene ID 128

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mRNA Refseq [NM_000671](#)

Protein Refseq [NP_000662](#)

MIM [103710](#)

UniProt ID [P11766](#)

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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