

Recombinant Human ADH5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ADH5-4736H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ADH5 MS Standard C13 and N15-labeled recombinant protein (NP_000662) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	39.7 kDa
AA Sequence	MANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLSGADPEG CFPVILGHEGAGIVESVGEVTKLKAGDVIPLYIPQCGECKFCLNPKTNLCQKIRVT QGKGLMPDGTSRFTCKGKILHYMGSTSFSEYTVVADISVAKIDPLAPLDKVCLLGC

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GISTGYGAAVNTAKLEPGSVCAVFGLGGVGLAVIMGCKVAGASRIIGVDINKDKFARA
 KEFGATECINPQDFSKPIQEVLIEMTDGGVDYSFECIGNVKVMRAALEACHKGGWGS
 VVVGVAASGEEIATRPFLVTGRTWKGTAFGGWKSVESVPKLVSEYMSKKIKVDEF
 VTHNLSFDEINKAFELMHSGKSIRTVVKITRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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](#)

SDS-PAGE



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