

Recombinant Full Length Human ADH5 Protein, C-Flag-tagged

Cat. No. ADH5-2175HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ADH5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	39.5 kDa
AA Sequence	MANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLSGADPEG CFPVILGHEGA GIVESVGEGVTKLKAGDTVIPLYIPQCGECKFCLNPKTNLCQKIRVT QGKGLMPDGTSRFTCKGKILHY MGTSTFSEYTVVADISVAKIDPLAPLDKVCLLGC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GISTGYGAAVNTAKLEPGSVCAVFGLGGVGLAVIMG CKVAGASRIIGVDINKDKFAR
 AKEFGATECINPQDFSKPIQEVLIENTDGGVDYSFECIGNVKVMRAALE ACHKGWG
 VSVVVGVAASGEEIATRPFLVTGRTWKGTAFGGWKSVESVPKLVSEYMSKKIKVD
 EFVTHNL SFDEINKAFELMHSGKSIRTVVKI TRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Druggable Genome

Protein Pathways Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Methane metabolism, Retinol metabolism, Tyrosine metabolism

Full Length Full L.

GENE INFORMATION

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

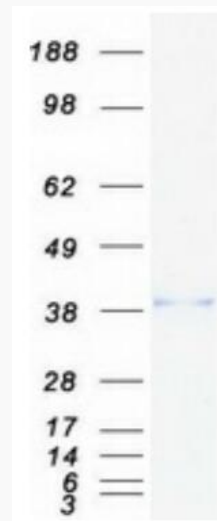
Official Symbol ADH5

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Synonyms	FDH; ADHX; ADH-3; AMEDS; BMFS7; FALDH; GSNOR; GSH-FDH; HEL-S-60p
Gene ID	128
mRNA Refseq	NM_000671.4
Protein Refseq	NP_000662.3
MIM	103710
UniProt ID	P11766



Coomassie blue staining of purified ADH5 protein.

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