

Recombinant Full Length Human ADH5 Protein, GST-tagged

Cat. No. ADH5-927HF **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	In Vitro Cell Free System
ProteinLength	374 amino acids
Description	<p>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]</p>
Molecular Mass	66.88 kDa
AA Sequence	MANEVKCKA AVAWEAGKPL SIEEIEVAPP KAHEVRIKII ATAVCHTDAY TLSGADPEGC FVILGHEGA GIVESVGEGV TKLKAGDTV I PLYIPQCGEC

 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

KFCLNPKTNL CQKIRVTQGK GLMPDGTSRF TCKGKTILHY MGTSTFSEYT
 VVADISVAKI DPLAPLDKVC LLGCGISTGY GAAVNTAKLE PGSVCAVFGL
 GGVGLAVIMG CKVAGASRII GVDINKDKFA RAKEFGATEC INPQDFSKPI
 QEVLIEMTDG GVDYSFECIG NVKVMRAALE ACHKGWGVSV VVGVAASGGE
 IATRPFQLVT GRTWKGTAFG GWKSVESVVPK LVSEYMSKKI KVDEFVTHNL
 SFDEINKAFE LMHSGKSIRT VVKI

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

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

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