

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	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	MANEVKCKA AVAWEAGKPL SIEEIEVAPP KAHEVRIKII ATAVCHTDAY TLSGADPEGC FPVILGHEGA GIVESVGEGV TKLKAGDTV IPLYIPQCGEC

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KFCLNPKTNL CQKIRVTQ GK GLMPDGTSRF TCKGKTILHY MGTSTFSEYT
 VVADISVAKI DPLAPLDKVC LLGCGISTGY GAAVNTAKLE PGSVCAVFGL
 GGVGLAVIMG CKVAGASRII GVDINKDKFA RAKEFGATEC INPQDFSKPI
 QEVLIEMTDG GVDYSFECIG NVKVMRAALE ACHKGWGVSV VVGVAASGGE
 IATRPFQLVT GRTWKGTAFG GWKSVESVPK 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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