

Recombinant Human ADH5, His-tagged

Cat. No. ADH5-27095TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 111-374 of Human ADH5 with an N terminal His tag. Predicted mwt: 29 kDa;
Species	Human
Source	E.coli
ProteinLength	111-374 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 105 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

CQKIRVTQGKGLMPDGTSRFTCKGKILHYMGSTFSEYT VVADISVAKIDPLAPLD
KVCLLGCGISTGYGAAVNTAK LEPGSVCAVFLGGVGLAVIMGCKVAGASRIIGVDI
NKDK FARAKEFGATECINPQDFSKPIQEVLIEMTDGGVDYSF ECIGNVKVMRAALE
ACHKGWGVSVVVGVAASGEEIATR PFQLVTGRTWKGTAFGGWKSVESVPKLVSE
YMSKKIKVDE FVTHNLSFDEINKAFELMHSGKSIRTVVKI

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;

Gene ID

128

mRNA Refseq

NM_000671

Protein Refseq

NP_000662

MIM

103710

Uniprot ID

P11766

Chromosome Location

4q23

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Pathway	Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem;
Function	S-(hydroxymethyl)glutathione dehydrogenase activity; alcohol dehydrogenase (NAD) activity; electron carrier activity; fatty acid binding; formaldehyde dehydrogenase activity;

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