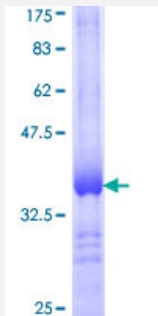


ADH5 (Human) Recombinant Protein (Q01)

Catalog # H00000128-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ADH5 partial ORF (NP_000662, 82 a.a. - 165 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KLKAGDTVIPLYIPQCGECKFCLNPKTNLCQKIRVTQGKGLMPDGTSRFTCKGKTLHYMGSTSFSEYTVVADISVAKIDPLAP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	34.98
Interspecies Antigen Sequence	Mouse (94); Rat (96)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ADH5

Entrez GeneID [128](#)

GeneBank Accession# [NM_000671](#)

Protein Accession# [NP_000662](#)

Gene Name ADH5

Gene Alias ADH-3, ADHX, FDH, GSNOR

Gene Description alcohol dehydrogenase 5 (class III), chi polypeptide

Omim ID [103710](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations alcohol dehydrogenase (class III), chi polypeptide|class III alcohol dehydrogenase 5|formaldehyde dehydrogenase|glutathione-dependent formaldehyde dehydrogenase

Pathway

- [1- and 2-Methylnaphthalene degradation](#)
- [3-Chloroacrylic acid degradation](#)
- [Drug metabolism - cytochrome P450](#)
- [Fatty acid metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Methane metabolism](#)
- [Retinol metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Alcoholism](#)
- [Asthma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Disease Models](#)
- [Diseases in Twins](#)
- [Flushing](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Hypersensitivity](#)
- [Lymphoma](#)
- [Narcolepsy](#)
- [Neoplasm Recurrence](#)

- [Neoplasms](#)
- [Substance-Related Disorders](#)