

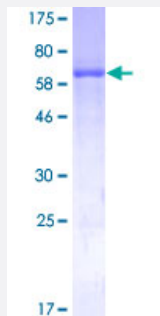
Full-Length

ADH4 (Human) Recombinant Protein (P01)

Catalog # H00000127-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ADH4 full-length ORF (AAH22319.1, 1 a.a. - 380 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGTKGKVIKCKAAIAWEAGKPLCIEEVEVAPPKAHEVRIQIATSLCHTDATVIDSKFEGLAFPVIVG
HEAAGVESIGPGVTNVKPGDKVIPLYAPLCRKCKFCLSPLTNLCGKISNLKSPASDQQLMEDKTS
RFTCKGKPVYHFFGTSTFSQYTVVSDINLAKIDDDANLERVCLLGCGFSTGYGAANNKAVTPGST
CAVFGGLGGVGLSAVMGCKAAGASRIIGIDINSEKFVKAKALGATDCLNPRDLHKPIQEVIIELTKGG
VDFALDCAGGSETMKAALDCTTAGWGSCTFIGVAAGSKGLTVFPEELIIGRTINGTFFGGWKSVD
SIPKLVDYKNKKFNLDALVTHTLFPDKISEAFDLMNQGKSIRTILIF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

66.6

Interspecies Antigen Sequence

Mouse (72); Rat (72)

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 — ADH4

Entrez GeneID[127](#)**GeneBank Accession#**[BC022319.1](#)**Protein Accession#**[AAH22319.1](#)**Gene Name**

ADH4

Gene Alias

ADH-2

Gene Description

alcohol dehydrogenase 4 (class II), pi polypeptide

Omim ID[103740](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes. [provided by RefSeq]

Other Designations

aldehyde reductase|class II alcohol dehydrogenase 4, pi subunit

Publication Reference

- [In vitro metabolism of a novel JNK inhibitor tanzisertib: interspecies differences in oxido-reduction and characterization of enzymes involved in metabolism.](#)

Atsriku C, Hoffmann M, Moghaddam M, Kumar G, Surapaneni S.

Xenobiotica 2015 Jun; 45(6):465.

Application: Enzyme, Human, Tanzisertib were incubated in human liver microsomes, cytosol and hepatocytes

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](#)
- [Retinol metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Alcohol-Induced Disorders](#)
- [Alcoholism](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cluster Headache](#)

- [Disease Models](#)
- [Diseases in Twins](#)
- [Esophageal Neoplasms](#)
- [Extraversion \(Psychology\)](#)
- [Flushing](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Kidney Failure](#)
- [Parkinson disease](#)
- [Personality Inventory](#)
- [Substance-Related Disorders](#)