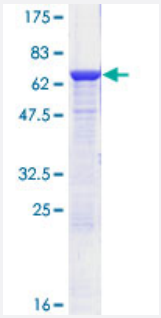
Full-Length

ADH1C (Human) Recombinant Protein (P01)

Catalog # H00000126-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ADH1C full-length ORF (NP_000660.1, 1 a.a. - 375 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSTAGKVIKCKAAVLWELKKPFSIEEVEVAPPKAHEVRIKMVAAGICRSDEHVVSGNLVTPLPVIL GHEAAGIVESVGEGVTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKNDLGNPRGTLQDGTRRF TCSGKPIHHFVGVSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTGYGSAVKVAKVTPGSTC AVFGLGGVGLSVVMGCKAAGAARIIAVDINKDKFAKAKELGATECINPQDYKKPIQEVLKEMTDGG VDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPDSQNLSINPMLLLTGRTWKGAIFGGFKSKES VPKLVADFMAKKFSLDALITNILPFEKINEGFDLLRSGKSIRTVLTF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	66.3
Interspecies Antigen Sequence	Mouse (85); Rat (82)
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 — ADH1C

Entrez GeneID	126
GeneBank Accession#	NM_000669.3
Protein Accession#	NP_000660.1
Gene Name	ADH1C
Gene Alias	ADH3
Gene Description	alcohol dehydrogenase 1C (class I), gamma polypeptide
Omim ID	103730
Gene Ontology	Hyperlink
Gene Summary	This gene encodes class I alcohol dehydrogenase, gamma subunit, which is a member of the alc ohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrate s, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation produ cts. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and plays a major role in ethanol c atabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a g enomic segment as a gene cluster. [provided by RefSeq
Other Designations	ADH, gamma subunit|alcohol dehydrogenase 3 (class I), gamma polypeptide|aldehyde reductase| class I alcohol dehydrogenase, gamma 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
- Adenoma
- Adenomatous Polyps
- Alcohol Withdrawal Delirium
- Alcohol-Induced Disorders
- Alcoholism

- Atherosclerosis
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cell Transformation
- Cerebrovascular Accident
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Craniofacial Abnormalities
- Dermatitis
- Diabetes Mellitus
- Disease Models
- Diseases in Twins
- Drug Hypersensitivity
- Edema
- Esophageal Neoplasms

- Fetal Diseases
- Flushing
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hearing Loss
- Heart Diseases
- Hypersensitivity
- Hypertension
- Hypopharyngeal Neoplasms
- Infection
- Inflammation
- Laryngeal Neoplasms
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Neoplasms
- Microsatellite Instability
- Migraine Disorders
- Mouth Abnormalities
- Mouth Neoplasms
- Musculoskeletal Diseases
- Myocardial Infarction
- Neoplasms
- Oropharyngeal Neoplasms
- Osteonecrosis

- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Parkinson disease
- Perception
- Pharyngeal Neoplasms
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Pulmonary Disease
- Skin Diseases
- Stomach Neoplasms
- Substance-Related Disorders
- Urinary Bladder Neoplasms
- Werner syndrome