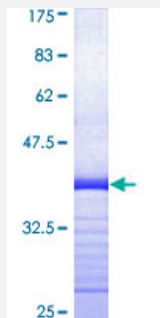


ALDH1A1 (Human) Recombinant Protein (Q01)

Catalog # H00000216-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ALDH1A1 partial ORF (AAH01505, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSSGTPDLPVLLTDLKIYTKIFINNEWHDSVSGKKFPVFNPAEEEEELCQVEEGDKEDVDKAVK AARQAFQIGSPWRTMDASERGRLLYKLADLIERDRLLLATMESMN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.51
Interspecies Antigen Sequence	Mouse (83); 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 — ALDH1A1

Entrez GeneID [216](#)

GeneBank Accession# [BC001505](#)

Protein Accession# [AAH01505](#)

Gene Name ALDH1A1

Gene Alias ALDC, ALDH-E1, ALDH1, ALDH11, MGC2318, PUMB1, RALDH1

Gene Description aldehyde dehydrogenase 1 family, member A1

Gene Ontology [Hyperlink](#)

Gene Summary This protein belongs to the aldehyde dehydrogenases family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a cytosolic isoform, which has a high affinity for aldehydes. [provided by RefSeq]

Other Designations ALDH class 1|acetaldehyde dehydrogenase 1|aldehyde dehydrogenase 1, soluble|aldehyde dehydrogenase 1A1|aldehyde dehydrogenase, liver cytosolic|retinal dehydrogenase 1|retinaldehyde dehydrogenase 1

Pathway

- [Metabolic pathways](#)
- [Retinol metabolism](#)

Disease

- [Alcoholism](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Disease Models](#)
- [Drug Toxicity](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)