

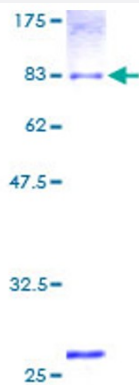
Full-Length

ALDH1B1 (Human) Recombinant Protein (P01)

Catalog # H00000219-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ALDH1B1 full-length ORF (AAH01619, 1 a.a. - 517 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLRFLAPRLLSLQGRTARYSSAAALPSPILNPDIPYNQLFINNEWQDAVSKKTFPTVNPTTGEVIGH
VAEGDRADVDRVKAAREAFRLGSPWRRMDASERGRLLNLLADLVERDRVYLASLETLDNGKP
FQESYALDLDEVIKVYRYFAGWADKWHGKTIPMDGQHFCFTRHEPVGVCQGQIIPWNFPLVMQGW
KLAPALATGNTVVMKVAEQTPLSALYLASLIKEAGFPPGVVNIITGYGPTAGAAIAQHMDVDKVAFT
GSTEVGHLIQKAAGDSNLKRVTLLEGGKSPSMLADADMEHAVEQCHEALFFNMGQCCCAGSRT
FVEESIYNEFLERTVEKAKQRKVGNPFELDTQQGPQVDKEQFERVLGYIQLGQKEGAKLLCGGER
FGERGFFIKPTVFGGVQDDMRIAKEEIFGPVQPLFKFKKIEEVVERANNTRYGLAAAVFTRDLDKA
MYFTQALQAGTVVWNTYNIVTCHTPFGGFKESGNGRELGEDGLKAYTEVKTVTIKVPQKNS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

82.61

Interspecies Antigen Sequence

Mouse (95); Rat (94)

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 — ALDH1B1

Entrez GeneID	219
GeneBank Accession#	BC001619
Protein Accession#	AAH01619
Gene Name	ALDH1B1
Gene Alias	ALDH5, ALDHX, MGC2230
Gene Description	aldehyde dehydrogenase 1 family, member B1
Omim ID	100670
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. This gene does not contain introns in the coding sequence. The variation of this locus may affect the development of alcohol-related problems. [provided by RefSeq]
Other Designations	ALDH class 2 OTTHUMP00000021399 acetaldehyde dehydrogenase 5 aldehyde dehydrogenase 1B1 aldehyde dehydrogenase 5 mitochondrial aldehyde dehydrogenase X

Pathway

- [3-Chloroacrylic acid degradation](#)
- [Arginine and proline metabolism](#)
- [Ascorbate and aldarate metabolism](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Fatty acid metabolism](#)
- [Glycerolipid metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Histidine metabolism](#)
- [Limonene and pinene degradation](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Tryptophan metabolism](#)
- [Valine](#)

Disease

- [Alcoholism](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Drug Hypersensitivity](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)

- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)