

Recombinant Full Length Human ALDH1A1 Protein, GST-tagged

Cat. No. ALDH1A1-1400HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH1A1 full-length ORF (AAH01505, 1 a.a. - 501 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	501 amino acids
Description	The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011]
Molecular Mass	80.63 kDa
AA Sequence	MSSSGTPDLP VLLTDLKIQY TKIFINNEWH DSVSGKKFPV FNPATEEELC QVEEGDKEDV DKAVKAARQA FQIGSPWRM DASERGRLLY KLADLIERDR LLLATMESMN GKKLYSNAYL NDLAGCIKTL RYCAGWADKI QGRTIPIDGN

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FFTYTRHEPI GVCGQIIPWN FPLVMLIWKI GPALSCGNTV VVKPAEQTPL
 TALHVASLIK EAGFPPGVVN IVPGYGPTAG AAISSHMDID KVAFTGSTEV
 GKLIKEAAGK SNLKRVTLEL GKGSPCIVLA DADLDNAVEF AHHGVFYHQG
 QCCIAASRIF VEESYDEFV RRSVERAKKY ILGNPLTPGV TQGPQIDKEQ
 YDKILDIES GKKEGAKLEC GGGPWGNKGY FVQPTVFSNV TDEMRIAKEE
 IFGPVQQIMK FKSLDDVIKR ANNTFYGLSA GVFTKDIDKA ITISSALQAG
 TVWVNCYGVV SAQCFFGGFK MSGNGRELGE YGFHEYTEVK TVTVKISQKN S

Applications

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

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[ALDH1A1 aldehyde dehydrogenase 1 family, member A1 \[Homo sapiens \]](#)

Official Symbol

[ALDH1A1](#)

Synonyms

ALDH1A1; aldehyde dehydrogenase 1 family, member A1; ALDH1, PUMB1; retinal dehydrogenase 1; RALDH1; retinaldehyde dehydrogenase 1; ALHDII; RALDH 1; ALDH class 1; acetaldehyde dehydrogenase 1; aldehyde dehydrogenase 1, soluble; aldehyde dehydrogenase, liver cytosolic; ALDC; ALDH1; PUMB1; ALDH11; ALDH-E1; MGC2318

Gene ID

[216](#)

mRNA Refseq

[NM_000689](#)

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Protein Refseq NP_000680

MIM 100640

UniProt ID P00352

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