

Recombinant Human ALDH1A1, His-tagged

Cat. No. ALDH1A1-27036TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 255-501 of Human ALDH1A1 with an N terminal His tag. observed mol wt: 29 kDa;
Species	Human
Source	E.coli
ProteinLength	255-501 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 135 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KEAAGKSNLKRVTLELGGKSPCIVLADADLDNAVEFAHHG VFYHQGQCCIAASRIFV EESIYDEFVRRSVERAKKYIL GNPLTPGVTQGPQIDKEQYDKILDIESGKKEGAKLE C GGGPWGNKGYFVQPTVFSNVTDEMRIAKEEIFGPVQQIMK FKSLDDVIKРАНNTF YGLSAGVFTKDIDKAITISSALQ AGTVWVNCYGVVSAQCPFGGFKMSGNGRELGEY GFHEY TEVKTVTVKISQKNS
Sequence Similarities	Belongs to the aldehyde dehydrogenase family.

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;
Gene ID	216
mRNA Refseq	NM_000689
Protein Refseq	NP_000680
MIM	100640
Uniprot ID	P00352
Chromosome Location	9q21.13

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Pathway	Biological oxidations, organism-specific biosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	Ras GTPase activator activity; aldehyde dehydrogenase (NAD) activity; androgen binding; oxidoreductase activity; retinal dehydrogenase activity;

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