

Active Recombinant Human ALDH1A1 Protein

Cat. No. ALDH1A1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH1A1 Protein was expressed in Escherichia coli cell
Species	Human
Source	E.coli
ProteinLength	501aa
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.
Form	Liquid
Bio-activity	Specific activity is > 700 pmol/min/ug, and was obtained by measuring the increase of NADH in absorbance at 340nm resulting from the reduction of NAD at pH 8.8 at 37C.
Molecular Mass	54.8 kDa (501aa) confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE

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Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
Storage Buffer	Liquid in. 50mM Tris-HCl buffer (pH 7.5) containing 10% glycerol
GENE INFORMATION	
Gene Name	ALDH1A1 aldehyde dehydrogenase 1 family member A1 [Homo sapiens (human)]
Official Symbol	ALDH1A1
Synonyms	Retinal dehydrogenase 1, RALDH1, ALDC, ALDH-E1, ALDH1, ALDH11, PuMB1, RALDH1, Acetaldehyde dehydrogenase 1, AHD2, Aldehyde Dehydrogenase, MGC2318, RALDH 1, RaLDH1 Aldehyde dehydrogenase 1 family member A1, Aldehyde dehydrogenase 1 soluble, Aldehyde dehydrogenase 1A1, Aldehyde dehydrogenase cytosolic, ALHDII, Aldehyde dehydrogenase family 1 member A1, Aldehyde dehydrogenase liver cytosolic, ALDH 1, ALDH 1A1, ALDH class 1, ALDH-E1, ALDH1 A1
Gene ID	216
mRNA Refseq	NM_000689.5
Protein Refseq	NP_000680.2
MIM	100640

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