

Recombinant Full Length Human ALDH1A1 Protein, C-Flag-tagged

Cat. No. ALDH1A1-1999HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ALDH1A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.7 kDa
AA Sequence	MSSSGTPDLPVLLTDLKIQYTKIFINNEWHDSVSGKKFPVFNPAEEEELCQVEEGDK EDVDKAVKAARQA FQIGSPWRTMDASERGRLLYKLADLIERDRLLLATMESMNGGK LYSNAYLNDLAGCIKTLRYCAGWADKI QGRTIPIDGNFFTYTRHEPIGVCGQIIPWNF PLVMLIWKIGPALSCGNTVVVKPAEQTPLTALHVASLIK EAGFPPGVVNIVPGYGPTA

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GAAISSHMDIDKVAFTGSTEVGKLIKEAAGKSNLKRVTLLEGGKSPCIVLA DADLDNA
VEFAHHGVFYHQGCCIAASRIFVEESIYDEFVRRSVERAKKYILGNPLTPGVTQGP
QIDKEQ YDKILDIESGKKEGAKLECGGGPWGNKGYFVQPTVFSNVTDEMRIAKEEI
FGPVQQIMKFKSLDDVIKR ANNTFYGLSAGVFTKDIDKAITISSALQAGTVWVNCYG
VVSAQCPFGGFKMSGNGRELGEYGFHEYTEVK TVTVKISQKNS TRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS
Protein Pathways	Metabolic pathways, Retinol metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	ALDH1A1 aldehyde dehydrogenase 1 family member A1 [Homo sapiens (human)]
Official Symbol	ALDH1A1

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Synonyms	ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e
Gene ID	216
mRNA Refseq	NM_000689.5
Protein Refseq	NP_000680.2
MIM	100640
UniProt ID	P00352



Coomassie blue staining of purified ALDH1A1 protein.