

Aldehyde Dehydrogenase 1A1 Recombinant Protein | ALDH1A1 recombinant protein

Recombinant Human Aldehyde Dehydrogenase 1A1

CATALOG #
AAA38779

PRODUCT SYNONYMS

Aldehyde Dehydrogenase 1A1; Recombinant Human Aldehyde Dehydrogenase 1A1; ALDH1A1 Human; Aldehyde Dehydrogenase 1A1 Human Recombinant; ALDC; Aldehyde dehydrogenase cytosolic; Aldehyde dehydrogenase family 1 member A1; ALDH1; ALDH11; ALDH-E1; ALHDII; MGC2318; PUMB1; RaIDH1; RALDH1; RALDH 1; Retinal dehydrogenase 1; ALDH1A1; ALDH1A1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	The ALDH1A1 protein solution (1mg/ml) is formulated in 50mM Tris-HCl pH-7.5 and 10% glycerol
Sequence	MSSSGTPDLP VLLTDLKIQY TKIFINNEWH DSVSGKKFPV FNPATEEEELC QVEEGDKEDV DKAVKAARQA FQIGSPWRTM DASERGRLLY KLADLIERDR LLLATMESMN GGLYSNAYL NDLAGCIKTL RYCAGWADKI QGR TIPIDGN FFTYTRHEPI GVC GQIIPWN FPLVMLIWKI GPALSCGNTV VVKPAEQTPL TALHVASLIK EAGFPPGVVN IVPGYGPTAG AAISSHMDID KVAFTGSTE V GKLIKEAAGK SNLKRVTLEL GKGSPCIVLA DADLDNAVEF AHHG VFYHQG QCCIAASRIF VEESIYDEFV RRSVERAKKY ILGNPLTPGV TQGPQIDKEQ YDKILD LIES GKKEGAKLEC GGGPWGNKGY FVQPTVFSNV TDEMRIA KEE IFGPVQQIMK FKS LDDVIKR ANNTFYGLSA GVFTKDIDKA ITISSALQAG TVWVNCYGVV SAQCPFGGFK MSGNGRELGE YGFHEYTEVK TVTVKISQKN S
Sequence Length	501
Source	E.coli
Physical Appearance	Sterile filtered colorless solution
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Please avoid freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ALDH1A1 recombinant protein	Description: The ALDH1A1 Human recombinant protein is a single, non-glycosylated polypeptide chain produced in E Coli, having a molecular weight of 54.8kDa and containing 501 amino acids (1-501 a.a.). Introduction: ALDH1A1 is part of the aldehyde dehydrogenases family. Aldehyde dehydrogenase is the 2nd protein of the main oxidative pathway of alcohol metabolism. Cytosolic and mitochondrial are 2 main liver isoforms of ALDH that are differentiated by their electrophoretic mobility, kinetic property, & subcellular localization. The majority of Caucasians have two main isozymes, whereas just about 50% of Orientals have only the cytosolic form, excluding the mitochondrial form. ALDH1A1 is also a member of the group of corneal crystallins that assist the transparency of the cornea. (Retinal + NAD+ + H2O = retinoate + NADH).
Product Categories/Family for ALDH1A1 recombinant protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361176
NCBI GeneID	216
NCBI Accession #	NP_000680.2

NCBI GenBank Nucleotide #	NM_000689.4
UniProt Accession #	P00352 ; O00768 ; Q5SYR1
Molecular Weight	54,862 Da
NCBI Official Full Name	retinal dehydrogenase 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family, member A1
NCBI Official Symbol	ALDH1A1
NCBI Official Synonym Symbols	ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e
NCBI Protein Information	retinal dehydrogenase 1; ALDH class 1; ALHDII; RALDH 1; acetaldehyde dehydrogenase 1; aldehyde dehydrogenase 1, soluble; aldehyde dehydrogenase, liver cytosolic; epididymis luminal protein 12; epididymis luminal protein 9; epididymis secretory sperm binding protein Li 53e; retinaldehyde dehydrogenase 1
UniProt Protein Name	Retinal dehydrogenase 1
UniProt Gene Name	ALDH1A1
UniProt Synonym Gene Names	ALDC; ALDH1; PUMB1; RALDH 1; RalDH1
UniProt Entry Name	AL1A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/aldh1a1-recombinant-protein/38779>