

Aldehyde Dehydrogenase 2 Active Protein | ALDH2 active protein

Recombinant Human Aldehyde Dehydrogenase 2

CATALOG #
AAA38769

HOST
E Coli

PRODUCT SYNONYMS

Aldehyde Dehydrogenase 2; Recombinant Human Aldehyde Dehydrogenase 2; ALDH2 Human; Aldehyde Dehydrogenase Human Recombinant; ALDM; ALDH1; ALDH-E2; MGC1806; ALDH2; Aldehyde dehydrogenase mitochondrial; ALDH class 2; ALDH2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	ALDH2 protein (1mg/ml) contains 20mM Tris-HCl buffer, pH-7.5, 1mM DTT, 1mM EDTA and 10% Glycerol. Sterile Filtered clear solution.
Concentration	1mg/ml (varies by lot)
Sequence	MSAAATQAVP APNQQPEVFC NQIFINNEWH DAVSRKTFPT VNPSTGEVIC QVAEGDKEDV DKAVKAARAA FQLGSPWRRM DASHRGRLN RLADLIERDR TYLAALETLD NGKPYVISYL VLDLDMVLKCL RYYAGWADKY HGKTIPIGDG FFSYTRHEPV GVCQIIPWN FLLMQAWKL GPALATGNVV VMKVAEQTPL TALYVANLIK EAGFPPGVVN IVPFGFPTAG AAIASHEDVD KVAFTGSTIE GRVIQVAAGS SNLKRVTLEL GKGSPNIIMS DADMDWAVEQ AHFALFFNQG QCCCAGSRTF VQEDIYDEFV ERSVARAKSR VVGNPFDSKT EQGPQVDETQ FKKILGYINT GKQEGAKLLC GGGIAADRGY FIQPTVFGDV QDGMTIAKEE IFGPVMQILK FKTIIEVVGR ANNSTYGLAA AVFTKDLDKA NYLSQALQAG TVWVNCYDVF GAQSPFGGYK MSGSGRELGE YGLQAYTEVK TGTKVPQKN S
Sequence Length	517
Biological Activity	Specific activity was found to be > 0.14 units/ml. Activity was obtained by measuring the increase of NADP in absorbance at 340 nm resulting from the reduction of NAD. 1 unit will oxidize 1umole of acetaldehyde to acetic acid per minute at pH 8 at 25C in the presence of beta-NAD, potassium and thiols.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ALDH2 active protein	Description: ALDH2 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 501 amino acids (18-517 a.a.) & having a molecular mass of 54.5 kDa. The ALDH2 is purified by proprietary chromatographic techniques.
Product Categories/Family for ALDH2 active protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	25777732
NCBI GeneID	217
NCBI Accession #	NP_000681.2
NCBI GenBank Nucleotide #	NM_000690.3

UniProt Accession #	P05091 ; Q03639 ; Q6IB13 ; Q6IV71 ; B4DW54 ; E7EUE5
NCBI Official Full Name	aldehyde dehydrogenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 2 family (mitochondrial)
NCBI Official Symbol	ALDH2
NCBI Official Synonym Symbols	ALDM; ALDHI; ALDH-E2
NCBI Protein Information	aldehyde dehydrogenase, mitochondrial; ALDH class 2; acetaldehyde dehydrogenase 2; liver mitochondrial ALDH; nucleus-encoded mitochondrial aldehyde dehydrogenase 2
UniProt Protein Name	Aldehyde dehydrogenase, mitochondrial
UniProt Gene Name	ALDH2
UniProt Synonym Gene Names	ALDM
UniProt Entry Name	ALDH2_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/e-coli-aldh2-active-protein/aldehyde-dehydrogenase-2/38769>