

Aldehyde dehydrogenase, dimeric NADP-preferring (Aldh3a1) Recombinant Protein | Aldh3a1 recombinant protein

Recombinant Mouse Aldehyde dehydrogenase, dimeric NADP-preferring (Aldh3a1)

CATALOG # AAA113437	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Aldehyde dehydrogenase; dimeric NADP-preferring (Aldh3a1); Recombinant Mouse Aldehyde dehydrogenase; Aldh3a1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-453. Full Length of Mature Protein
Sequence	SNISSIVNRA RDAFNSGKTR PLQFRVEQLE ALQRMINENL KGISKALASN LRKNEWTSYY EEVAHVLDEI DFTIKGLSDW AEDEPVAKTR QTQEDDLYIH SEPLGVVLVI GAWNYPFNLT IQPMVGAIAA GNAVVLKPSE VSDHMADLLS TLIPQYMDKD LYPVIKGGVP ETTELLKEKF DHIMYTGSTA VGKIVMAAAA KHLTPVTLEL GGKSPCYVDK DCDLDVACRR IAWGKFMNSG QTCVAPDYIL CDPSIQNEIV EKLKSLKDF YGEDAKQSHD YGRINDRHF QRVINLIDSK KVAHGGTWDQ PSRYIAPTIL VDVPQSPVM QEEIFGPVMP IVCVRSLEA IKFINQREKP LALYVFSNND KVIKKMIAET SSGGVTANDV IVHITVPTLP FGGVGNSGMG AYHGKKSFT FSHRRSCLVR SLRNEEANKA RYPPSPAKMP RH
Species	Mouse
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for Aldh3a1 recombinant protein	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	163310771
NCBI GeneID	11670
NCBI Accession #	NP_001106196.1
NCBI GenBank Nucleotide #	NM_001112725.1
UniProt Accession #	P47739; Q9R203; B1ATI7
Molecular Weight	50,481 Da

NCBI Official Full Name	aldehyde dehydrogenase, dimeric NADP-preferring isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase family 3, subfamily A1
NCBI Official Symbol	Aldh3a1
NCBI Official Synonym Symbols	Ahd4; Aldh; Ahd-4; Aldh3
NCBI Protein Information	aldehyde dehydrogenase, dimeric NADP-preferring
UniProt Protein Name	Aldehyde dehydrogenase, dimeric NADP-preferring
UniProt Gene Name	Aldh3a1
UniProt Synonym Gene Names	Ahd-4; Ahd4; Aldh3; Aldh4

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.

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Online datasheet: <https://stage.aaabiotech.com/aldh3a1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113437>