Aldehyde Dehydrogenase Family 3 Member B1 (ALDH3B1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aldehyde dehydrogenase family 3 member B1 (ALDH3B1), Recombinant Protein
Full Product Name	Recombinant Bovine Aldehyde dehydrogenase family 3 member B1 (ALDH3B1)
Product Gene Name	ALDH3B1 recombinant protein
Product Synonym Gene Name	ALDH3B1
Sequence	MDPFADTLQR LREAFVSGRT RPAEFRDAQL KGLSRFLREN KQLLQEALAQ DLHKSAFEAE VSEISISQNE INLALRNLRT WMKDEKVSKN LATQLDSAFI RKEPFGLVLI LSPWNYPLNL SLGPLVGALA AGNCVVLKPS EISKNTEKVL AEVLPRYLDQ SCFAVVLGGP QETGRLLEHK FDYIFFTGNP QVGKIVMTAA AKHLTPVTLE LGGKNPCYVD DNCDPQTVAN RVAFFRCFNA GQTCVAPDYV LCSPEMQAQL VPALQSAITR FYGDDPQSSP NLGRIISQKH FQRLRGLLSC GRVVIGGQSD ECDLYIAPTV LVDVQETDPV MQEEIFGPIL PIVNVRSLGQ AIDFINRREK PLALYAFSNS SQVVKRVLAQ TSSGGFCGND GFMHLTLASL PFGGVGSSGM GNYHGKFSFD TFSHHRACLL RRPGLEKIYA IRYPPHTPRN LRVLLMAMET RSCSC
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
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.
Molecular Weight	51,800 Da
Sequence Positions	1-465, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q1JPA0
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ALDH3B1 recombinant protein	The aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular gene spans about 20 kb of genomic DNA and is composed of 9 coding exons. The gene is highly expressed in kidney and lung. The functional significance of this gene as well as the cellular localization of its product are presently unknown. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of ALDH3B1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALDH3B1 purchase	MBS1279896 is a recombinant protein targeting ALDH3B1. Also known as Recombinant Bovine Aldehyde dehydrogenase family 3 member B1 (ALDH3B1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH3B1. It may not necessarily be applicable to this product.

NCBI GI #	115495989
NCBI GeneID	511469
NCBI Accession #	NP_001068986.1
UniProt Primary Accession #	Q1JPA0
UniProt Secondary Accession #	A6QLG7
UniProt Related Accession #	Q1JPA0
GenBank Nucleotide #	NM_001075518.1
NCBI Official Full Name	aldehyde dehydrogenase family 3 member B1
NCBI Official Symbol	ALDH3B1
UniProt Protein Name	Aldehyde dehydrogenase family 3 member B1
Protein Family	Aldehyde dehydrogenase family
UniProt Gene Name	ALDH3B1
NCBI Protein Information	aldehyde dehydrogenase family 3 member B1
UniProt Comments for ALDH3B1	Oxidizes medium and long chain saturated and unsaturated aldehydes. Metabolizes also benzaldehyde. Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde. May not metabolize short chain aldehydes. May use both NADP+ and NAD+ as cofactors. May have a protective role against the cytotoxicity induced by lipid peroxidation.
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