

Product datasheet for TP516262

Aldh3a1 (NM_007436) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse aldehyde dehydrogenase family 3, subfamily A1 (Aldh3a1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216262 protein sequence Red=Cloning site Green=Tags(s)

MSNISSIVNRARDAFNSGKTRPLQFRVEQLEALQRMINENLKGISKALASNLRKNEWTSYYEEVAHVLDE
IDFTIKGLSDWAEDEPVAKTRQTQEDDLYIHSEPLGVVLVIGAWNYPFNLTIQPMVGAIAAGNAVLKPS
EVS DHMADLLSTLIPQYMDKDLYPVIKGGVPETTELLKEKFDHIMYTGSTAVGKIVMAAAKHLTPVTLE
LGGKSPCYVDKDCDL DVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNEIVEKLLKSLKDFYGEDAKQSH
DYGRIINDRHFQRVINLIDSKKVAHGGTWDQPSRYIAPTILVDVDPQSPVMQEEIFGPVMPIVCVRSLDE
AIKFINQREKPLALYVFSNNDKVIKKMIAETSSGGVTANDVIVHITVPTLPFGG VNGSGMGAYHGKKSFE
TFSHRRSCLVRSRNEEANKARYPPSPAKMPRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	50.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_031462
Locus ID:	11670



[View online »](#)

UniProt ID: [P47739](#), [Q3UNF5](#)

RefSeq Size: 1729

Cytogenetics: 11 37.96 cM

RefSeq ORF: 1359

Synonyms: Ahd-4; Ahd4; Aldh; Aldh3

Summary: ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde (Probable). They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation (Probable). Oxidizes medium and long chain aldehydes into non-toxic fatty acids (PubMed:25286108). Preferentially oxidizes aromatic aldehyde substrates (PubMed:11784860). Comprises about 50 percent of corneal epithelial soluble proteins (PubMed:11784860). May play a role in preventing corneal damage caused by ultraviolet light (PubMed:10376761).[UniProtKB/Swiss-Prot Function]