

## Product datasheet for **TP316921L**

### **ALDH9A1 (NM\_000696) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human aldehyde dehydrogenase 9 family, member A1 (ALDH9A1), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC216921 representing NM_000696 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MFLRAGLAALSPLLRLRSPVAAMSTGTFVVSQPLNYRGGARVEPADASGTEKAFEPATGRVIATFTCS  
GEKEVNLAVQNAKAAFKIWSQKSGMERCILLEAARIIREREDEIATMECINNGKSIFEARLDIDISWQC  
LEYAGLAASMAGEHIQLPGGSFGYTRREPLGVCVIGAWNYPFQIASWKSAPALACGNAMVFKPSPFTP  
VSALLLAEIYSEAGVPPGLFNVVQGGAATGQFLCQHPDVAKVSFTGSVPTGMKIMEMSAKGIKPVTELEL  
GKSPLIIFSDCDMNNAVK GALMANFLTQQGVCCNGTRVVFVQKEILDKFTEEVVKQTQRIKIGDPLEDTR  
MGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYVPEDPKLKDGYMRPCVLTNCRDDMTCVKEEIFGPV  
MSILSFDTEAEVLERANDTTFGLAAGVFRDIQRAHRVVAELQAGTCFINNYNVSPVELPFGGYYKKSFGF  
RENGRVTIEYYSQLKTVCEMGDVESAF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

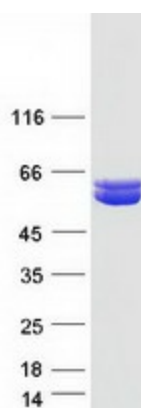
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	56.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000687</a>
<b>Locus ID:</b>	223
<b>UniProt ID:</b>	<a href="#">P49189</a>
<b>RefSeq Size:</b>	2500
<b>Cytogenetics:</b>	1q24.1
<b>RefSeq ORF:</b>	1554
<b>Synonyms:</b>	ALDH4; ALDH7; ALDH9; E3; TMABA-DH; TMABADH; TMABALDH
<b>Summary:</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified ALDH9A1 protein (Cat# [TP316921]). The protein was produced from HEK293T cells transfected with ALDH9A1 cDNA clone (Cat# [RC216921]) using MegaTran 2.0 (Cat# [TT210002]).