

## Product datasheet for **TP316921M**

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

#### **Product data:**

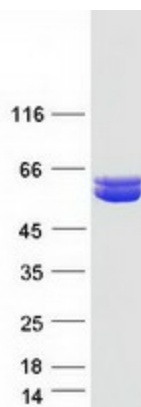
|  |  |
|--|--|
| <b>Product Type:</b>                         | Recombinant Proteins   |
| <b>Description:</b>                          | Recombinant protein of human aldehyde dehydrogenase 9 family, member A1 (ALDH9A1), 100 µg  |
| <b>Species:</b>                              | Human  |
| <b>Expression Host:</b>                      | HEK293T  |
| <b>Expression cDNA Clone or AA Sequence:</b> | >RC216921 representing NM_000696<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|  | <p>MFLRAGLAALSPLLRLSPVAAMSTGTFVVSQPLNYRGGARVEPADASGTEKAFEPATGRVIATFTCS<br/>GEKEVNLAVQNAKAAFKIWSQKSGMERCILLEAARIIREREDEIATMECINNGKSIFEARLDIDISWQC<br/>LEYAGLAASMAGEHIQLPGGSFGYTRREPLGVCVIGAWNYPFQIASWKSAPALACGNAMVFKPSPFTP<br/>VSALLLAEIYSEAGVPPGLFNVVQGGAATGQFLCQHPDVAKVSFTGSVPTGMKIMEMSAKGIKPVTELEL<br/>GKSPLIIFSDCDMNNAVKGALMANFLTQGQVCCNGTRVQKEILDKFTEEVVKQTQRIKIGDPLEDTR<br/>MGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYVPEDPKLKDGYMRPCVLTNCRDDMTCVKEEIFGPV<br/>MSILSFDTEAEVLERANDTTFGLAAGVFRDIQRAHRVVAELQAGTCFINNYNVSPVELPFGGYYKSGFG<br/>RENGRVTIEYYSQLKTVCEMGDVESAF</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| <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.  |



[View online »](#)

|                          |   |
|--------------------------|---|
| <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]).