

## Recombinant Human Aldehyde Dehydrogenase 6 Family, Member A1, GST-tagged

**Cat. No.** ALDH6A1-501H    **Lot. No.** (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>      | Recombinant Human ALDH6A1 protein was expressed as gst-tagged fusion protein by E. coli and purified by GSH-sepharose. The purified protein was resolved in 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.) added with 100mM GSH and 1% TritonX-100, 15% glycerol.                         |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                | E.coli                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>           | ALDH6A1 belongs to the aldehyde dehydrogenases family of proteins. ALDH6A1 plays a role in the valine and pyrimidine catabolic pathways. Methylmalonate semialdehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. |
| <b>Antigen peptid region</b> | C-342aa                                                                                                                                                                                                                                                                                                                                             |
| <b>Full length</b>           | False                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>               | The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.                                                                                                                                                                                                                                                        |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ALDH6A1 aldehyde dehydrogenase 6family, member A1 [ Homo sapiens ]                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>     | ALDH6A1                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | ALDH6A1;aldehyde dehydrogenase 6 family, member A1; MMSDH; MMSADHA; MGC40271;methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial;malonate-semialdehyde dehydrogenase; aldehyde dehydrogenase family 6 memberA1; mitochondrial acylating methylmalonate-semialdehyde dehydrogenase; EC1.2.1.18; EC 1.2.1.27 |
| <b>Gene ID</b>             | 4329                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_005589                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_005580                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 603178                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q02252                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 14q24.3                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Branched-chain aminoacid catabolism; Inositol phosphate metabolism; Malonate semialdehydpathway; Metabolic pathways; Metabolism; Metabolism of amino acids andderivatives; Propanoate metabolism; Valine; beta-Alanine metabolism;beta-alanine degradation I; valine degradation I                                          |
| <b>Function</b>            | fatty-acyl-CoA binding; malonate-semialdehyde dehydrogenase (acetylating) activity;methylmalonate-semialdehyde dehydrogenase (acylating) activity;oxidoreductase activity                                                                                                                                                   |

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