

# Recombinant Full Length Human ALDH6A1 Protein, GST-tagged

**Cat. No.** ALDH6A1-1414HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ALDH6A1 full-length ORF ( AAH32371, 10 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 535 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This protein catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. 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. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013] |
| <b>Molecular Mass</b>   | 83.49 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | VRARILQVSS KVKSSPTWYS ASSFSSSVPT VKLFIGGKFV ESKSDKWIDI<br>HNPATNEVIG RVPQATKAEM DAAIASCKRA FPAWADTSVL SRQQVLLRYQ<br>QLIKENLKEI AKLITLEQ GK TLADAEGDVF RGLQVVEHAC SVTSLMMGET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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MPSITKDMDL YSYRLPLGVC AGIAPFNFPA MIPLWMFPMA MVCGNTFLMK  
 PSERVPGATM LLAKLLQDSG APDGTLNIIH GQHEAVNFIC DHPDIKAISF  
 VGSNKAGEYI FERGSRHGKR VQANMGAKNH GVVMPDANKE NTLNQLVGAA  
 FGAAGQRCMA LSTAVLVGEA KKWLPELSEH AKNLRVNAGD QPGADLGPLI  
 TPQAKERV CN LIDSGTKEGA SILLDGRKIK VKGYENG NFV GPTIISNVKP  
 NMTCYKEEIF GPVLVVLETE TLDEAIQIVN NNPYGNGTAI FTTNGATARK  
 YAHLVDVGQV GVNVPVPL PMFSFTGSRS SFRGDTNFYG KQGIQFYTQL  
 KTITSQWKEE DATLSSPAVV MPTMGR

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

ALDH6A1 aldehyde dehydrogenase 6 family, member A1 [ Homo sapiens ]

**Official Symbol**

ALDH6A1

**Synonyms**

ALDH6A1; aldehyde dehydrogenase 6 family, member A1; MMSDH; methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial; malonate-semialdehyde dehydrogenase; aldehyde dehydrogenase family 6 member A1; mitochondrial acylating methylmalonate-semialdehyde dehydrogenase; MMSADHA; MGC40271

**Gene ID**

4329

**mRNA Refseq**

NM\_005589

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|                |                           |
|----------------|---------------------------|
| Protein Refseq | <a href="#">NP_005580</a> |
| MIM            | <a href="#">603178</a>    |
| UniProt ID     | <a href="#">Q02252</a>    |

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