

## Recombinant Human ALDH6A1 Protein, GST-tagged

**Cat. No.** ALDH6A1-451H    **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>	Wheat Germ
<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>	VRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKVFESKSDKWIDIHNPATNEV IGRVPQATKAEMDAAIASCKRAFPWADTSVLSRQQVLLRYQQLIKENLKEIAKLITL QGKTLADAEGDVFRGLQVVEHACSVTSLMMGETMPSITKMDLYSYRLPLGVCAGI APFNFPAMIPLWMFPMAMVCGNTFLMKPSERVPGATMLLAKLLQDSGAPDGLNIIH GQHEAVNFICDHPDIKAISFVGSNKAGEYIFERGSRHGKRVQANMGAKNHGVVMPD

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ANKENTLNQLVGAAFGAAGQRCMALSTAVLVGEAKKWLPELVEHAKNLRVNAGDQ  
 PGADLGPLITPQAKERVCNLIDSGTKEGASILLDGRKIKVKGYENGNFVGPTIISNVKP  
 NMTCYKEEIFGPVLVVLETETLDEAIQIVNNNPYGNGTAFITTTNGATARKY AHLVDVG  
 QVGVNVPVPLPMFSFTGSRSSFRGDTNFYQKQGIQFYTQLKTITSQWKEEDATLS  
 SPAVVMPTMGR

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

**Notes** Best use within three months from the date of receipt of this protein.

**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](#)

**Protein Refseq** [NP\\_005580](#)

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MIM 603178

UniProt ID Q02252



12.5% SDS-PAGE Stained with Coomassie Blue.

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