

Recombinant Human ALDH6A1 Protein, GST-tagged

Cat. No. ALDH6A1-451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH6A1 full-length ORF (AAH32371, 10 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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]
Molecular Mass	83.49 kDa
AA Sequence	VRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKVFESKSDKWIDIHNPATNEV IGRVPQATKAEMDAAIASCKRAFPWADTSVLSRQQVLLRYQQLIKENLKEIAKLITLE QGKTLADAEGDVFRGLQVVEHACSVTSLMMGETMPSITKMDLYSYRLPLGVCAGI APFNFPAMIPLWMFPMAMVCGNTFLMKPSERVPGATMLLAKLLQDSGAPDGTLNIIH GQHEAVNFICDHPDIKAISFVGSNKAGEYIFERGSRHGKRVQANMGAKNHGVVMPD

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ANKENTLNQLVGAAFGAAGQRCMALSTAVLVGEAKKWLPVELVEHAKNLRVNAGDQ
PGADLGPLITPQAKERV CNLIDSGTKEGASILLDGRKIKVKG YENGNFVGPTIISNVKP
NMTCYKEEIFGPVLVVLETETLDEAIQIVNNNPYGNGT AIFTTNGATARKY AHLVDVG
QVG VNP I P V P L P M F S F T G S R S S F R G D T N F Y G K Q G I Q F Y T Q L K T I T S Q W K E E D A T L S
S P A V V M P T M G R

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](#)

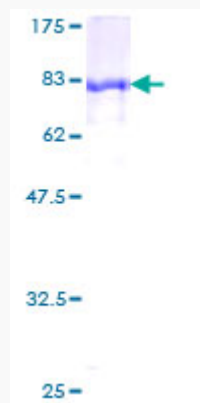
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MIM 603178

UniProt ID Q02252



12.5% SDS-PAGE Stained with Coomassie Blue.

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