

Recombinant Full Length Human ALDH6A1 Protein, GST-tagged

Cat. No. ALDH6A1-1414HF **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	In Vitro Cell Free System
ProteinLength	535 amino acids
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	VRARILQVSS KVKSSPTWYS ASSFSSSVPT VKLFIGGKFV ESKSDKWIDI HNPATNEVIG RVPQATKAEM DAAIASCKRA FPAWADTSVL SRQQVLLRYQ QLIKENLKEI AKLITLEQGK TLADAEGDVF RGLQVVEHAC SVTSLMMGET

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MPSITKDMDL YSYRLPLGVC AGIAPFNFPA MIPLWMFPMA MVCGNTFLMK
 PSERVPGATM LLAKLLQDSG APDGTLNIIH GQHEAVNFIC DHPDIKAISF
 VGSNKAGEYI FERGSRHGKR VQANMGAKNH GVVMPDANKE NTLNQLVGAA
 FGAAGQRCMA LSTAVLVGEA KKWLPPELVEH AKNLRVNAGD QPGADLGPLI
 TPQAKERVCN LIDSGTKEGA SILLDGRKIK VKGYENGNFV 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	NP_005580
MIM	603178
UniProt ID	Q02252

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