

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



MPSITKDMDL YSYRLPLGVC AGIAPFNFPA MIPLWMFPMA MFCGNTFLMK
 PSERVPGATM LLAKLLQDSG APDGLNIIH GQHEAVNFIC DHPDIKAISF
 VGSNKAGEYI FERGSRHGKR VQANMGAKNH GVVMPDANKE NTLNQLVGAA
 FGAAGQRCMA LSTAVLVGEA KKWLPVELVEH AKNLRVNAGD QPGADLGPLI
 TPQAKERVCN LIDSGTKEGA SILLDGRKIK VKGYENGNFV GPTIISNVKP
 NMTCYKEEIF GPVLVVLETE TLDEAIQIVN NNPYGNGTAI FTTNGATARK
 YAHLVDVGQV GVNPIPVPL 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](#)

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA



Protein Refseq [NP_005580](#)

MIM [603178](#)

UniProt ID [Q02252](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA