

Recombinant Human aldehyde dehydrogenase 6 family, member A1, His-tagged

Cat. No. ALDH6A1-500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH6A1 protein was expressed as 6-his-tagged fusion protein by E.Coli and purified by Ni-sepharose. MW=44 kDa. The purified protein was resolved in 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
Species	Human
Source	E.coli
Description	ALDH6A1 an enzyme that in humans is encoded by the ALDH6A1 gene. This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, mitochondrial methylmalonate semialdehyde dehydrogenase, catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA.
Antigen peptide region	C-342aa
Full length	False
Molecular Weight	44 kDa
Storage	The protein is stored in PBS buffer at -20 °C. Repeated freeze-thaw cycles should be avoided.

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GENE INFORMATION

Gene Name	ALDH6A1 aldehyde dehydrogenase 6family, member A1 [Homo sapiens]
Official Symbol	ALDH6A1
Synonyms	ALDH6A1; aldehydedehydrogenase 6 family, member A1; MMSDH; MMSADHA; methylmalonate-semialdehydedehydrogenase [acylating], mitochondrial; malonate-semialdehyde dehydrogenase;aldehyde dehydrogenase family 6 member A1; mitochondrial acylatingmethylmalonate-semialdehyde dehydrogenase; EC 1.2.1.18; EC 1.2.1.27; Malonate-semialdehyde dehydrogenase [acylating]
Gene ID	4329
mRNA Refseq	NM_005589
Protein Refseq	NP_005580
MIM	603178
UniProt ID	Q02252
Chromosome Location	14q24
Pathway	Branched-chain aminoacid catabolism; Inositol phosphate metabolism; Malonate semialdehyde pathway;Metabolic pathways; Metabolism; Metabolism of amino acids and derivatives; Propanoatemetabolism; Valine; beta-Alanine metabolism; beta-alaninedegradation I; valine degradation I

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Function

fatty-acyl-CoA binding; malonate-semialdehyde dehydrogenase (acetylating) activity;
methylmalonate-semialdehyde dehydrogenase (acylating) activity; oxidoreductase
activity

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