

Recombinant Human Aldehyde Dehydrogenase 6 Family, Member A1, GST-tagged

Cat. No. ALDH6A1-501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH6A1 protein was expressed as gst-tagged fusion protein by E. coli and purified by GSH-sepharose. The purified protein was resolved in 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% TritonX-100, 15% glycerol.
Species	Human
Source	E.coli
Description	ALDH6A1 belongs to the aldehyde dehydrogenases family of proteins. ALDH6A1 plays a role in the valine and pyrimidine catabolic pathways. 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.
Antigen peptid region	C-342aa
Full length	False
Storage	The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.

GENE INFORMATION

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Gene Name	ALDH6A1 aldehyde dehydrogenase 6family, member A1 [Homo sapiens]
Official Symbol	ALDH6A1
Synonyms	ALDH6A1;aldehyde dehydrogenase 6 family, member A1; MMSDH; MMSADHA; MGC40271;methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial;malonate-semialdehyde dehydrogenase; aldehyde dehydrogenase family 6 memberA1; mitochondrial acylating methylmalonate-semialdehyde dehydrogenase; EC1.2.1.18; EC 1.2.1.27
Gene ID	4329
mRNA Refseq	NM_005589
Protein Refseq	NP_005580
MIM	603178
UniProt ID	Q02252
Chromosome Location	14q24.3
Pathway	Branched-chain aminoacid catabolism; Inositol phosphate metabolism; Malonate semialdehydpathway; Metabolic pathways; Metabolism; Metabolism of amino acids andderivatives; Propanoate metabolism; Valine; beta-Alanine metabolism;beta-alanine degradation I; valine degradation I
Function	fatty-acyl-CoA binding; malonate-semialdehyde dehydrogenase (acetylating) activity;methylmalonate-semialdehyde dehydrogenase (acylating) activity;oxidoreductase activity

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