

Recombinant Human ALDH6A1 293 Cell Lysate

Cat. No. ALDH6A1-8916HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for aldehyde dehydrogenase 6 family, member A1 (ALDH6A1), nuclear gene encoding mitochondrial protein is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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](#)

MIM

[603178](#)

UniProt ID

[Q02252](#)

Chromosome Location

14q24

Pathway

Branched-chain amino acid catabolism, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Malonate semialdehyde pathway, propanoyl-CoA =>Acetyl-

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CoA, organism-specific biosystem; Malonate semialdehyde pathway, propanoyl-CoA
=> Acetyl-CoA, conserved biosystem;

Function

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

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