

Recombinant Mouse Aldh6a1 Protein, MYC/DDK-tagged

Cat. No. Aldh6a1-267M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded enzyme is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This enzyme catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Mutations in the human gene result in Methylmalonate Semialdehyde Dehydrogenase Deficiency, 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 encoding different isoforms.
Molecular Mass	58 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 ug/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Aldh6a1](#) aldehyde dehydrogenase family 6, subfamily A1 [*Mus musculus* (house mouse)]

Official Symbol [Aldh6a1](#)

Synonyms Aldh6a1; aldehyde dehydrogenase family 6, subfamily A1; Mmsdh; 1110038I05Rik; methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial; aldehyde dehydrogenase family 6 member A1; malonate-semialdehyde dehydrogenase; EC 1.2.1.18; EC 1.2.1.27

Gene ID [104776](#)

mRNA Refseq [NM_134042](#)

Protein Refseq [NP_598803](#)

UniProt ID [Q9EQ20](#)

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