

Recombinant Human MUT

Cat. No. MUT-30098TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Methylmalonyl Coenzyme A mutase with N terminal proprietary tag; Predicted MWt 108.61 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	750 amino acids
Description	This gene encodes the mitochondrial enzyme methylmalonyl Coenzyme A mutase. In humans, the product of this gene is a vitamin B12-dependent enzyme which catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA, while in other species this enzyme may have different functions. Mutations in this gene may lead to various types of methylmalonic aciduria.
Molecular Weight	108.610kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MLRAKNQLFLLSPHYLRQVKESGSRLIQQRLLHQQQPLH PEWAALAKKQLKGKNP
 EDLIWHTPEGISIKPLYSKGDTMD LPEELPGVKPFTRGPYPTMYTFRPWITRQYAGF
 STVEESN KFYKDNKAGQQGLSVAFDLATHRGYDSNPRVRGDVGMA GVAIDTVE
 DTKILFDGIPLEKMSVSMTMNGAVIPVLNFI VTGEEQGVPEKLTGTIQNDILKEFM
 VRNTYIFPPEPSMK IADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYT LADGL
 EYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIA KMRAGRRLWAHLIEKMFQPKN
 SKSLLLRAHCQTSGWSLTE QDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLP
 TVK SARIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYD AALKLINEIEEMGG
 MAKAVAEGIPKLRIEECAARRQARID SGSEVIVGVNKYQLEKEDTVEVLADNTSVRN
 RQIEKLLK IKSSRDQALAERCLAALTECAASGDGNILALAVDASRARC TVGEITDALK
 KVFGEHKANDRMVSGAYRQEFGESKEITSA IKRVHKFMEREGRRPRLLVAKMGQD
 GHDRGAKVIATGFAD LGFDVDIGPLFQTPREVAQQAVDADVHAVGVNTLAAGHKT
 LVPelikELNSLGRPDILVMCGGVIPPQDYEFLEVGVS N VFGPGTRIPKAAVQVLDD
 IEKCLEKKQQSV

Sequence Similarities

Belongs to the methylmalonyl-CoA mutase family. Contains 1 B12-binding domain.

GENE INFORMATION

Gene Name [MUT methylmalonyl CoA mutase \[Homo sapiens \]](#)

Official Symbol [MUT](#)

Synonyms MUT; methylmalonyl CoA mutase; methylmalonyl Coenzyme A mutase;
 methylmalonyl-CoA mutase, mitochondrial;

Gene ID [4594](#)

mRNA Refseq [NM_000255](#)

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Protein Refseq	NP_000246
MIM	609058
Uniprot ID	P22033
Chromosome Location	6p21
Pathway	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
Function	cobalamin binding; metal ion binding; methylmalonyl-CoA mutase activity;

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