

Recombinant Full Length Human MUT Protein

Cat. No. MUT-329HF 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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	108.610kDa inclusive of tags
AA Sequence	MLRAKNQLFLLSPHYLRQVKESGSRLIQQRLLHQQQPLH PEWAALAKKQLKGKNP EDLIWHTPEGISIKPLYSKGDTMD LPEELPGVKPFTRGPYPTMYTFRPWITIRQYAGF STVEESN KFYKDNIKAGQQGLSVAFDLATHRGYDSDNPRVRGDIVGMA GVAIDTVE DTKILFDGIPLEKMSVSM TMNGAVIPVLANFI VTGEEQGVPEKLTGTIQNDILKEFM VRNTYIFPPEPSMK IADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYT LADGL EYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIA KMRAGRRLWAHLIEKMFQPKN

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SKSLLLRAHCQTSGWSLTE QDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLP
 TVK SARIARNTQIIIQEESGIPKVADPWGGSYMMMECLTNDVYD AALKLINEIEEMGG
 MAKAVAEGIPKLRIIEECAARRQARID SGSEVIVGVNKYQLEKEDTVEVLIDNTSVRN
 RQIEKLKK IKSSRDQALAERCLAALTECAASGDGNILALAVDASRARC TVGEITDALK
 KVFGEHKANDRMVSGAYRQEFGESKEITSA IKRVHKFMEREGRRPRLLVAKMGQD
 GHDRGAKVIATGFAD LGFDVDIGPLFQTPREVAQQAVDADVHAVGVNTLAAGHKT
 LVPELIKELNSLGRPDILVMCGGVIPPQDYEFLEFVGVS N VFGPGTRIPKAAVQVLDD
 IEKCLEKKQQSV

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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](#)

Protein Refseq [NP_000246](#)

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MIM	609058
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UniProt ID	P22033
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