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	MLRAKNQLFLLSPHYLRQVKESSGSRLIQQRLLHQQQPLH PEWAALAKKQLKGKNP EDLIWHTPEGISIKPLYSKGDTMD LPEELPGVKPFTRGPYPTMYTFRPWTIRQYAGF STVEESN KFYKDNIKAGQQGLSVAFDLATHRGYDSDNPRVRGDVGMA GVAIDTVE DTKILFDGIPLEKMSVSMTMNGAVIPVLANFI VTGEEQGVPKEKLTGTIQNDILKEFM VRNTYIFPPEPSMK IIADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYT LADGL EYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIA KMRAGRRLWAHLIEKMFQPKN

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	SKSLLLRAHCQTSGWSLTE QDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLP TVK SARIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYD AALKLINEIEEMGG MAKAVAEGIPKLRIEECAARRQARID SGSEVIVGVNKYQLEKEDTVEVLAIDNTSVRN RQIEKLKK IKSSRDQALAERCLAALTECAASGDGNILALAVDASRARC TVGEITDALK KVFGEHKANDRMVSGAYRQEFGESKEITSA IKRVHKFMEREGRRPRLLVAKMGQD GHDRGAKVIATGFAD LGFDVDIGPLFQTPREVAQQAVDADVHAVGVNTLAAGHKT LVPELIKELNSLGRPDILVMCGGVIPPQDYEFLFEVGVSN 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
UniProt ID	P22033

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