

## MMUT Protein, Human, Recombinant (His)

### General Information

Synonyms:	MMUT;MCM;Methylmalonyl-CoA mutase, mitochondrial;mitochondrial;Methylmalonyl-CoA isomerase;MUT
Protein Construction:	33-750 aa
Species:	Human
Expression Host:	E. coli
Accession:	P22033
Molecular Weight:	84.8 kDa (predicted)
AA Sequence:	LHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPEGISIKPLYSKRDTMDLPEELPGVKPFTRGPYPTMYTFRP WTIRQYAGFSTVEESNKFYKDNKAGQQGLSVAFDLATHRGYSDNPRVRGDVGMAGVAIDTVEDTKILFDG IPLEKMSVSMTMNGAVIPVLANFIVTGEEQGVPKEKLTGTIQNDILKEFMVRNTYIFPPEPSMKIADIFEYTAKH MPKFNSISISGYHMQEAGADAILELAYTLADGLEYSRTGLQAGLTIDEFAPRLSFFWIGIMNFYMEIAKMRA RRLWAHLIEKMFQPKNSKSLLLRAHCQTSGWSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLP TVKSARIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYDAALKLINEIEEMGGMAKAVAEGIPKLRIIECA ARRQARIDSGSEVIVGVNKYQLEKEDAVEVLAIDNTSVRNRIEKLKIKSSRDQALAERCLAALTECAASGDG NILALAVDASRARCTVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEITSAIKRVHKFMEREGRRPRLLVA KMGQDGHDRGAKVIATGFADLGFVDIGPLFQTPREVAQQAVDADVHAVGISTLAAGHKTLVPELIKELNSL GRPDILVMCGGVIPPQDYEFLEFVGVSNVFPGPTRIPKAAVQVLDDIEKCLEKKQQSV

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Catalyzes the reversible isomerization of methylmalonyl-CoA (MMCoA) (generated from branched-chain amino acid metabolism and degradation of dietary odd chain fatty acids and cholesterol) to succinyl-CoA (3-carboxypropionyl-CoA), a key intermediate of the tricarboxylic acid cycle.

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