

## Product datasheet for TP301972

### Methylmalonyl Coenzyme A mutase (MUT) (NM\_000255) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Human methylmalonyl CoA mutase (MUT), nuclear gene encoding mitochondrial protein, full length, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC201972 protein sequence  
Red=Cloning site Green=Tags(s)

MLRAKNQLFLLSPHYLRQVKESGSRLIQQRLLHQQQLHPWEAALAKKQLKGKNPEDLIWHTPEGISIK  
 PLYSKRDTMDLPEELPGVKPFTRGPYPTMYTFRPWIRQYAGFSTVEESNKFYKDNKAGQQGLSVAFDL  
 ATHRGYSDSNPRVRGVDVGMAGVAIDTVEDTKILFDGIPLEKMSVSMTMNGAVIPVLANFIVTGEEQGVPK  
 EKLTGTIQNDILKEFMVRNTYIFPPEPSMKIADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYT  
 LADGLEYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIAKMRAGRRLWAHLIEKMFQPKNSKSLLLRAH  
 CQTSGWSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPTVKSARIARNTQIIIQEESGIPK  
 VADPWGGSYMMECTNDVYDAALKLINEIEEMGGMAKAVAEGIPKLRIECAARRQARIDSGSEVIVGVN  
 KYQLEKEDTVEVLAI DNTSVRNRQIEKLLKIKSSRDQALAERCLAALTECAASGDGNILALAVDASRARC  
 TVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEITSAIKRVHKFMEREGRRPRLLVAKMGQDGHDRG  
 AKVIATGFADLGFVDIGPLFQTPREVAQQAVDADVHAVGVSTLAAGHKTLVPELIKELNSLGRPDILVM  
 CGGVIPPQDYEFLEFVGVSNVFPGTRIPKAAVQVLDIEKCLEKKQQSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** Myc-DDK

**Predicted MW:** 83.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate Bradford method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

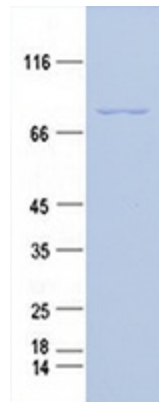
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000246</a>
<b>Locus ID:</b>	4594
<b>UniProt ID:</b>	<a href="#">P22033</a> , <a href="#">A0A024RD82</a> , <a href="#">B2R6K1</a>
<b>RefSeq Size:</b>	3886
<b>Cytogenetics:</b>	6p12.3
<b>RefSeq ORF:</b>	2250
<b>Synonyms:</b>	MCM; MUT
<b>Summary:</b>	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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

**Product images:**

Purified recombinant protein MUT was analyzed by SDS-PAGE gel and Coomassie Blue Staining.