Full-Length

MUT (Human) Recombinant Protein (P01)

Catalog # H00004594-P01 Size 25 ug, 10 ug

Applications

Specification

Product Description	Human MUT full-length ORF (AAH16282, 1 a.a. - 750 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLRAKNQLFLLSPHYLRQVKESSGSRLIQQRLLHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPE GISIKPLYSKGDTMDLPEELPGVKPFTRGPYPTMYTFRPWTIRQYAGFSTVEESNKFYKDNIKAGQ QGLSVAFDLATHRGYDSDNPRVRGDVGMAGVAIDTVEDTKILFDGIPLEKMSVSMTMNGAVIPVL ANFIVTGEEQGVPKEKLTGTIQNDILKEFMVRNTYIFPPEPSMKIIADIFEYTAKHMPKFNSISISGYHM QEAGADAILELAYTLADGLEYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIAKMRAGRRLWAHLI EKMFQPKNSKSLLLRAHCQTSGWSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPT VKSARIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYDAALKLINEIEEMGGMAKAVAEGIPKL RIEECAARRQARIDSGSEVIVGVNKYQLEKEDTVEVLAIDNTSVRNRQIEKLKKIKSSRDQALAERC LAALTECAASGDGNILALAVDASRARCTVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEIT SAIKRVHKFMEREGRRPRLLVAKMGQDGHDRGAKVIATGFADLGFDVDIGPLFQTPREVAQQAV DADVHAVGVNTLAAGHKTLVPELIKELNSLGRPDILVMCGGVIPPQDYEFLFEVGVSNVFGPGTRI PKAAVQVLDDIEKCLEKKQQSV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	108.24
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MUT

Entrez GeneID	4594
GeneBank Accession#	BC016282
Protein Accession#	AAH16282
Gene Name	MUT
Gene Alias	MCM
Gene Description	methylmalonyl Coenzyme A mutase
Omim ID	251000 609058
Gene Ontology	Hyperlink
Gene Summary	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 met hylmalonyl-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
Other Designations	OTTHUMP00000039926

Pathway

- Metabolic pathways
- Propanoate metabolism
- Valine

Disease

- Amino Acid Metabolism
- Genetic Predisposition to Disease
- Neural Tube Defects