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# Product datasheet for TP307943L

## MT (MCAT) (NM_173467) Human Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human malonyl CoA:ACP acyltransferase (mitochondrial) (MCAT), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC207943 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSVRVARVAWVRGLGASYRRGASSFPVPPPGAQGVAELLRDATGAEEEAPWAATERRMPGQCSVLLFPGQ<br>GSQVVGMGRGLLNYPRVRELYAAARRVLGYDLLELSLHGPQETLDRTVHCQPAIFVASLAAVEKLHHLQP<br>SVIENCVAAAGFSVGEFAALVFAGAMEFAEGLYAVKIRAEAMQEASEAVPSGMLSVLGQPQSKFNFACLE<br>AREHCKSLGIENPVCEVSNYLFPDCRVISGHQEALRFLQKNSSKFHFRRTRMLPVSGAFHTRLMEPAVEP<br>LTQALKAVDIKKPLVSVYSNVHGHRYRHPGHIHKLLAQQLVSPVKWEQTMHAIYERKKGRGFPQTFEVGP<br>GRQLGAILKSCNMQAWKSYSAVDVLQTLEHVDLDPQEPPR<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 40.6 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA 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 |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **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. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_775738 |

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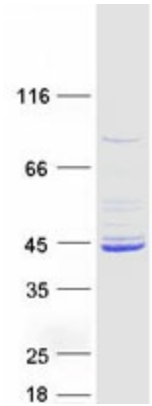
|---|---|
| **Locus ID:** | 27349 |
| **UniProt ID:** | Q8IVS2 |
| **RefSeq Size:** | 2086 |
| **Cytogenetics:** | 22q13.2 |
| **RefSeq ORF:** | 1170 |
| **Synonyms:** | fabD; FASN2C; MCT; MCT1; MT; NET62 |
| **Summary:** | The protein encoded by this gene is found exclusively in the mitochondrion, where it catalyzes the transfer of a malonyl group from malonyl-CoA to the mitochondrial acyl carrier protein. The encoded protein may be part of a fatty acid synthase complex that is more like the type II prokaryotic and plastid complexes rather than the type I human cytosolic complex. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2012] |
| **Protein Pathways:** | Fatty acid biosynthesis, Metabolic pathways |

## Product images:




Coomassie blue staining of purified MCAT protein (Cat# [TP307943]). The protein was produced from HEK293T cells transfected with MCAT cDNA clone (Cat# [RC207943]) using MegaTran 2.0 (Cat# [TT210002]).