

Recombinant Human MCAT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MCAT-5054H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCAT MS Standard C13 and N15-labeled recombinant protein (NP_775738) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	42.9 kDa
AA Sequence	MSVRVARVAWVRGLGASYRRGASSFPVPPPGAQGVAE LLRDATGAEEEEAPWAAT ERRMPGQCSVLLFPGQGSQVVGMMGRG LLNYPRVRELYAAARRVLGYDLLELSLHG PQETLDRTVHCQPAIFVASLA AVEKLHHLQPSVIENCVAAAGFSVGEFAALVFAGAM EFAEGLYAVKIRAEAMQEASEAVPSGMLSVLGQPQSKFNFACLEARHCKSLGIENP VCEVSNYLFPDCRVISGHQEALRFLQKNSSKFHFRTRMLPVSGAFHTRLMEPAVE PLTQALKAVDIKKPLVSVYSNVHGHRYRHPGHIHKLLAQQLVSPVKWEQTMHAIYER KKGRGFPQTFEVGPGRQLGAILKSCNMQAWKSYS AVDVLQ TLEHVDLDPQEPPRT

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	RTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MCAT malonyl-CoA-acyl carrier protein transacylase [Homo sapiens (human)]
Official Symbol	MCAT
Synonyms	MCAT; malonyl CoA:ACP acyltransferase (mitochondrial); malonyl-CoA-acyl carrier protein transacylase, mitochondrial; fabD; FASN2C; MCT; MT; NET62; mitochondrial malonyltransferase; [Acyl-carrier-protein] malonyltransferase; mitochondrial malonyl CoA:ACP acyltransferase; malonyl-CoA:acyl carrier protein transacylase, mitochondrial; MGC47838;
Gene ID	27349
mRNA Refseq	NM_173467
Protein Refseq	NP_775738

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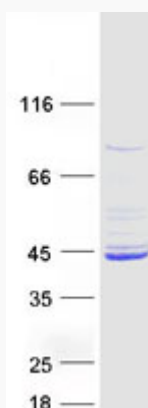
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MIM 614479

UniProt ID Q8IVS2

SDS-PAGE



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