

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

Cat. No. TRMU-5913H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

TRMU MS Standard C13 and N15-labeled recombinant protein (NP_060476) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of deafness caused by mitochondrial 12S ribosomal RNA mutations. Alternative splicing results in multiple transcript variants.

Molecular Mass

47.6 kDa

AA Sequence

MQALRHVVCALSGGVDSAVAALLLRRRGYQVTGVFMKNWDSLDEHGVCTADKDC
EDAYRVCQILDIPFHQVSYVKEYWNDVFSDFLNEYEKGRTPNPDIVCNKHIKFSCFF
HYAVDNLGADAIATGHYARTSLEDEEVFEQKHVKKPEGLFRNRFEVRNAVKLLQAA
DSFKDQTFFLSQVSQDALRRTIFPLGGLTKEFVKKIAAENRLHHVLQKKE SMGMCFI
GKRNFHFLLQYLQPRPGHFISIEDNKVLGTHKGWFLYTLGQRANIGGLREPWYVVE
KDSVKGDV FVAPRTDHPALYRDLLRTRVHWIAEPPAALVRDKMMECHFRFRHQ

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MALVPCVLTNLNQDGTWVVTAVQAVRALATGQFAVFYKGDDECLGSGKILRLGPSAYT
LQKGQRRAGMATESPSDSPEDGPGLSPLLTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

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 TRMU tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Homo sapiens (human)]

Official Symbol TRMU

Synonyms TRMU; tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase; TRMT, tRNA (5 methylaminomethyl 2 thiouridylate) methyltransferase; mitochondrial tRNA-specific 2-thiouridylase 1; FLJ10140; MTO2; MTO2 homolog; mitochondrial 5-methylaminomethyl-2-thiouridylate-methyltransferase; MTU1; TRMT; TRMT1; TRNT1; MGC99627;

Gene ID 55687

mRNA Refseq NM_018006

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Protein Refseq NP_060476

MIM 610230

UniProt ID O75648

SDS-PAGE



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