

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	MQALRHVVCALSGGVDSAVAALLLRRLRGYQVTGVFMKNWDSLDEHGVCTADKDC EDAYRVCQILDIPFHQVSIVKEYWNVFSDFLNEYEKGRTPNPDIVCNKHIKFSCFF HYAVDNLGADAIATGHYARTSLEDEEVFEQKHVKKPEGLFRNRFEVRNAVKLLQAA DSFKDQTFFLSQVSQDALRRTIFPLGGLTKEFVKKIAAENRLHHVLQKKESMGMCFI GKRNFHFLLQYLQPRPGHFISIEDNKVLGTHKGWFLYTLGQRANIGGLREPWYVVE KDSVKGDVVFAPRTDHPALYRDLLRTSRVHWIAEPPAALVRDKMMECHFRFRHQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	MALVPCVLTNLNQDGTWVTVAVQAVRALATGQFAVFYKGDECLGSGKILRLGPSAYT LQKGQRRAGMATESPSPEDGPGLSPLLTRTRPLEQKLISEEDLAANDILDYKDDD 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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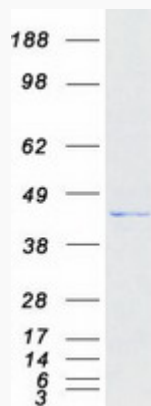
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Protein Refseq NP_060476

MIM 610230

UniProt ID O75648

SDS-PAGE



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