

Recombinant Human CMTR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CMTR1-706H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FTSJD2 MS Standard C13 and N15-labeled recombinant protein (NP_055865) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	S-adenosyl-L-methionine-dependent methyltransferase that mediates mRNA cap1 2'-O-ribose methylation to the 5'-cap structure of mRNAs. Methylates the ribose of the first nucleotide of a m7GpppG-capped mRNA and small nuclear RNA (snRNA) to produce m7GpppRm (cap1). Displays a preference for cap0 transcripts. Cap1 modification is linked to higher levels of translation. May be involved in the interferon response pathway.
Molecular Mass	95.3 kDa
AA Sequence	MKRRTDPECTAPIKKQKKRVAELALSLSSTSDDEPPSSVSHGAKASTTSLSGSDSET EGKQHSSDSFDDAFKADSLVEGTSSRYSMYNSVSQKLMAKMGFREGEGLGKYSQ GRKDIVEASSQKGRRGLGLTLRGFDQELNVDWRDEPEPSACEQVSWFPECTTEIPD TQEMSDWMVVGKRKMIIEDETEFCGEELLHSLVQCKSVFDVLDGEEMRRARTRAN PYEMIRGVFFLNRAAMKMANMDFVFDRMFTNPRDSYGKPLVKDREAELLYFADVCA GPGGFSEYVLWRKKWHAKGFGMTLKGPNDFKLEDFYSASSELFEPYYGEGGIDGD GDITRPENISAFRNFLDNTDRKGVHFLMADGGFSVEGQENLQEILSKQLLLCQFLM

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ALSIVRTGGHFICKTFDLFTPFSVGLVYLLYCCFERVCLFKPITSRPANSERYVVKGL
KVGIDDVRDYLFAVNIKLNQLRNTSDSVNLVVPLEVIKGDHEFTDYMIRSNESHCSLQ
IKALAKIHAFVQDTTLSEPRQAEIRKECLRLWGIPDQARVAPSSSDPKSKFFELIQGTE
IDIFSYPKPTLLTSKTLEKIRPVFDYRCMVSGSEQKFLIGLGKSQIYTDWGRQSDRWIKL
DLKTELPRDTLLSVEIVHELKGEKGAQRKISAIHILDVVLNGTDVREQHFNQRIQLAE
KFVKAVSKPSRPDMNPIRVKEVYRLEEMEKIFVRLEMKIIKGSSGTPKLSYTGRDDRH
FVPMGLYIVRTVNEPWTMGFSKSFKKKFFYNKTKDSTFDLPADSIAPFHICYGRFLF
WEWGDGIRVHDSQKPQDQDKLSKEDVLSFIQMHRATRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

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	CMTR1 cap methyltransferase 1 [Homo sapiens (human)]
Official Symbol	CMTR1
Synonyms	CMTR1; cap methyltransferase 1; MTr1; hMTr1; FTSJD2; KIAA0082; cap-specific mRNA (nucleoside-2'-O-)-methyltransferase 1; FtsJ methyltransferase domain containing 2; ISG95; S-adenosyl-L-methionine-dependent methyltransferase FTSJD2; cap1 2'O-ribose methyltransferase 1; ftsJ methyltransferase domain-containing

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protein 2; interferon-stimulated gene 95 kDa protein; EC 2.1.1.57

Gene ID 23070

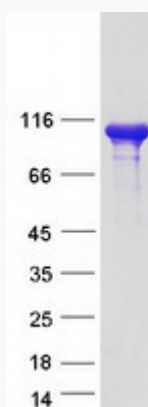
mRNA Refseq NM_015050

Protein Refseq NP_055865

MIM 616189

UniProt ID Q8N1G2

SDS-PAGE



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