

Recombinant Mouse Cmtr1 Protein, Myc/DDK-tagged

Cat. No. Cmtr1-2213M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cap methyltransferase 1 (Cmtr1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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	95.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Cmtr1 cap methyltransferase 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Cmtr1](#)

Synonyms

Cmtr1; cap methyltransferase 1; MTr1; Ftsjd; Ftsjd2; AI451264; 1300018I05Rik; cap-specific mRNA (nucleoside-2'-O-)-methyltransferase 1; FtsJ methyltransferase domain-containing protein 2; S-adenosyl-L-methionine-dependent methyltransferase FTSJD2; cap1 2'O-ribose methyltransferase 1; EC 2.1.1.57

Gene ID [74157](#)

mRNA Refseq [NM_028791](#)

Protein Refseq [NP_083067](#)

UniProt ID [Q9DBC3](#)

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