

Datasheet for ABIN7565005
CMTR1 Protein (AA 1-837) (His tag)



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Overview

Quantity:	1 mg
Target:	CMTR1
Protein Characteristics:	AA 1-837
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CMTR1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cmtr1 Protein expressed in mammalian cells.
Sequence:	MKRRTDPECT APLKKQKRIG ELARHLSSTS DDEPLSSVNH AAKASATSLS GSDSETEGKQ PCSDDFKDAF KADSLVEGTS SRYSMYNSVS QRLMAKMGFR EGEGLGKYSQ GRKDIVETSN QKGRRLGLT LQGFQELNV DWRDEPEPNA CEQVSWFPEC TTEIPDSREM SDWMVVGKRK MVIEDETEFC GEELLHSMK CKSVFDILDG EEMRRARTRA NPYEMIRGVF FLNRAAMKMA NMDVFVDRMF TNPLDSSGKP LLKESDIDLL YFADVCAGPG GFSEYVLRWK KWHAKGFGMT LKGPNDFKLE DFYSASSELF EPYYGEGGVD GDGDITRPEN INAFRNFVLD NTDRKGVHVF MADGGFSVEG QENLQEILSK QLLLCQFLMA LSVVRTGGHF VCKTFDLFTP FSVGLIYLLY CCFERVCLFK PITSRPANSE RYVVCCKGLKV GIDDVREYLF SVNIKLNQLR NTESDVNLVV PLMVIKGDHE FNDYMIRSNE SYCSLQIKAL AKIHAFVQDT TLSEPRQAEI RKECLQLWKI PDQARVAPSS SDPKFKFFEL IKDTDINIFS YKPTLLTAKT LEKIRPVLEY RCMVSGSEQK FLLGLGKSQI YTWDGRQSDR WVKLDLKTTEL PRDTLLCVEI VHELKGEKGA QRKISAIHIL DVLVLNGSDV REQHFNQRIQ LAEFVKAVS KPSRPDMNPI RVKEVYRLEE MEKIFVRLEM

Product Details

KLIKGSGGTP KLSYTGRDDR HFVPTGVYIV RTVNEPWTMG FSKSNNRKFF YNKKTQKSVY
ALPTESIAPF HTCYY SRLFW EWGDGFHMRD SQKPQDPDKL SKEDVLSFIQ SHNPLGP **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: CMTR1

Alternative Name: Cmtr1 ([CMTR1 Products](#))

Background: Cap-specific mRNA (nucleoside-2'-O-)-methyltransferase 1 (EC 2.1.1.57) (Cap methyltransferase 1) (Cap1 2'-O-ribose methyltransferase 1) (MTr1) (FtsJ methyltransferase domain-containing protein 2),FUNCTION: 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 m(7)GpppG-capped mRNA and small nuclear RNA (snRNA) to produce m(7)GpppRm (cap1). Displays a preference for cap0

Target Details

transcripts. Cap1 modification is linked to higher levels of translation. May be involved in the interferon response pathway. {ECO:0000250|UniProtKB:Q8N1G2}.

Molecular Weight: 95.7 kDa

UniProt: [Q9DBC3](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months