

Datasheet for ABIN7562002
MTR Protein (AA 1-1253) (His tag)



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Overview

Quantity:	1 mg
Target:	MTR
Protein Characteristics:	AA 1-1253
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTR protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mtr Protein expressed in mammalian cells.
Sequence:	MKKTLQDEIE AILRK RIMVL DGGMG TMIQR YKLSEEHFQG QEFKDHSRPL KGNN DILSIT QPDIIYQIHK EYLLAGADII ETNTFSSTSI AQADYGLEHL AYRMNKCSAD VARKAAEEIT LQTGVKRFVA GALGPTNKTL SVSPSVERPD YRNITFDELV DAYQEQAKGL LDGRVDILLI ETIFDTANAK AALFAIQNLF EENYAPPRPI FISGTIVDKS GRTLSGQTGE AFVTSVSHSD PLCIGLNCSL GAAEMRPFIE TIGKCTTAYV LCYPNAGLPN TFGDYDETPS TMATHLKDFA VDGLVNIVGG CCGSTPDHIR EIAEAVKKCK PRVPPASVFE GHMLLSGLEP FRIGPYTNFV NIGERCNVAG SRKFAKLIMA GNYEEALSIA KAQVEMGAQV LDINMDDGML DGPSAMTRFC NSIASEPDIA KVPLCIDSSN FAVIEAGLKC CQGKCIVNSI SLKEGEGDFL EKARKIKKFG AAVVVMAFDE EGQATETDVK VNVCTRAYHL LVDKVGFNPN DIIFDPNILT IGTGMEEHNL YAINFIHATR VIKETLPGVR ISGGLSNLSF SFRGMEAIRE AMHGVFLYHA IKFGMDMGIV NAGNLPVYDA IHKDLLQLCE DLIWNKDSEA TEKLLRYAQT HGTGGKKVIQ TDEWRNGSIE ERLEYALVKG IEKHIVEDTE EARLNGEKYP RPLNIIIEGPL MNGMKVVGDL FGAGKMFLPQ

Product Details

VIKSARVMKK AVGHLIPFME KEREEARLIN GSVEEEDPYQ GTIVLATVKG DVHDIGKNIV
GVVLACNNFR VIDLGVMTPC DKILQAALDH KADIIGLSGL ITPSLDEMIF VAKEMERLAI
KIPLLIGGAT TSRHTAVKI APRYSAPVIH VLDASKSVVW CSQLLDENLR DDYFEEILEE
YEDIRQDHYE SLKERKYVPL SQARKHGFHI DWLSEHPVK PTFIGTQVFE DYNLQKLV DY
IDWKPFDDVW QLRGKYPNRG FPKIFNDKAV GEEARKVYND AQNMLNILIS QKKLQARGVV
GFWPAQSVQD DIHLYAEGVV PQAAEPIATF YGLRQQAQEKD SSSTDPYHCL SDFIAPLHSG
VCDYLGLFAV ACFGVEELSK TYEDDGDDYS SIMVKALGDR LAEAFAEELH ERVRRELWAY
SRSEQLGVPD LRRLRYEGIR PAPGYSPQPD HTEKLTMWRL ASIEQATGIR LTESLAMAPA
SAVSGLYFSN VKAKYFAVGK ISKDQTEDYA LRKNMPVAEV EKWLGPILGY DTD **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: MTR

Target Details

Alternative Name: [Mtr \(MTR Products\)](#)

Background: Methionine synthase (MS) (EC 2.1.1.13) (5-methyltetrahydrofolate–homocysteine methyltransferase) (Cobalamin-dependent methionine synthase) (Vitamin-B12 dependent methionine synthase),FUNCTION: Catalyzes the transfer of a methyl group from methylcob(III)alamin (MeCbl) to homocysteine, yielding enzyme-bound cob(I)alamin and methionine in the cytosol. MeCbl is an active form of cobalamin (vitamin B12) used as a cofactor for methionine biosynthesis. Cob(I)alamin form is regenerated to MeCbl by a transfer of a methyl group from 5-methyltetrahydrofolate. The processing of cobalamin in the cytosol occurs in a multiprotein complex composed of at least MMACHC, MMADHC, MTRR (methionine synthase reductase) and MTR which may contribute to shuttle safely and efficiently cobalamin towards MTR in order to produce methionine. {ECO:0000250|UniProtKB:Q99707}.

Molecular Weight: 139.1 kDa

UniProt: [A6H5Y3](#)

Pathways: [Methionine Biosynthetic Process](#)

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
