

Datasheet for ABIN3130901
MTR Protein (AA 1-1253) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	MTR
Protein Characteristics:	AA 1-1253
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MKKTLQDEIE AILRK RIMVL DGGMG TMIQR YKLSEEHFQG QEFKDHSRPL KGNNDILSIT QPDIIYQIHK EYLLAGADII ETNTFSSTSI AQADYGLEHL AYRMNKC SAD 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 SFRGMEAI RE AMHGVFLYHA IKFGMDMGIV NAGNLPVYDA IHKDLLQLCE DLIWNKDSEA TEKLLRYAQT HGTGGKKVIQ TDEWRNGSIE ERLEYALVKG IEKHIVEDTE EARLNGEKYP RPLNIIEGPL MNGMKVVVDL FGAGKMFLPQ</p>
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VIKSARVMKK AVGHLIPFME KEREERLIN GSVEEEDPYQ GTIVLATVKG DVHDIGKNIV
GVVLACNNFR VIDLGVMTPC DKILQAALDH KADIIGLSGL ITPSLDEMIF VAKEMERLAI
KIPLLIGGAT TSRTHTAVKI APRYSAPVIH VLDASKSVVV CSQLLDENLR DDYFEEILEE
YEDIRQDHYE SLKERKYVPL SQARKHGFHI DWLSEPHPVK PTFIGTQVFE DYNLQKLVDY
IDWKPFDDVW QLRGKYPNRG FPKIFNDKAV GEEARKVYND AQNMLNILIS QKKLQARGVV
GFWPAQSVQD DIHLYAEGVV PQAAEPIATF YGLRQQAED SSSTDPYHCL SDFIAPLHSG
VCDYLGLFAV ACFGVEELSK TYEDDGDDYS SIMVKALGDR LAEFAEELH ERVRRELWAY
SRSEQLGVPD LRRLRYEGIR PAPGYSPQD HTEKLTMWRL ASIEQATGIR LTESLAMAPA
SAVSGLYFSN VKAKYFAVGK ISKDQTEDYA LRKNMPVAEV EKWLGPILGY DTD

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Mtr Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Product Details

- fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: MTR

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

Background: Catalyzes the transfer of a methyl group from methyl-cobalamin to homocysteine, yielding enzyme-bound cob(I)alamin and methionine. Subsequently, remethylates the cofactor using methyltetrahydrofolate (By similarity). {ECO:0000250}.

Molecular Weight: 140.0 kDa Including tag.

UniProt: [A6H5Y3](#)

Pathways: [Methionine Biosynthetic Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process