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.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Mtr Protein expressed in mammalien cells.
Sequence:	MKKTLQDEIE AILRKRIMVL DGGMGTMIQR YKLSEEHFQG QEFKDHSRPL KGNNDILSIT 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

Product Details

	ERLEYALVKG IEKHIVEDTE EARLNGEKYP RPLNIIEGPL MNGMKVVGDL FGAGKMFLPQ VIKSARVMKK AVGHLIPFME KEREEARLIN GSVEEEDPYQ GTIVLATVKG DVHDIGKNIV GVVLACNNFR VIDLGVMTPC DKILQAALDH KADIIGLSGL ITPSLDEMIF VAKEMERLAI KIPLLIGGAT TSRTHTAVKI APRYSAPVIH VLDASKSVVV CSQLLDENLR DDYFEEILEE YEDIRQDHYE SLKERKYVPL SQARKHGFHI DWLSEPHPVK PTFIGTQVFE DYNLQKLVDY IDWKPFFDVW QLRGKYPNRG FPKIFNDKAV GEEARKVYND AQNMLNILIS QKKLQARGVV GFWPAQSVQD DIHLYAEGVV PQAAEPIATF YGLRQQAEKD SSSTDPYHCL SDFIAPLHSG VCDYLGLFAV ACFGVEELSK TYEDDGDDYS SIMVKALGDR LAEAFAEELH ERVRRELWAY SRSEQLGVPD LRRLRYEGIR PAPGYPSQPD 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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	MTR
Alternative Name:	Mtr (MTR Products)

Target Details

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:	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.
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