

Datasheet for ABIN7549577
MTHFR Protein (AA 1-656) (His tag)



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Overview

Quantity:	1 mg
Target:	MTHFR
Protein Characteristics:	AA 1-656
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTHFR protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MTHFR Protein expressed in mammalian cells.
Sequence:	MVNEARGNSS LNPCLEGSAS SGSESSKDSS RCSTPGLDPE RHERLREKMR RRLESGDKWF SLEFFPPRTA EGAVNLISRF DRMAAGGPLY IDVTWHPAGD PGSDKETSSM MIASTAVNYC GLETILHMT C CRQRLEEITG HLHKAKQLGL KNIMALRGDP IGDQWEEEEE G FN YAVDLVK HIRSEFGDYF DICVAGYPKG HPEAGSFEAD LKHLKEK VSA GADFIITQLF FEADTFFRFV KACTDMGITC PIVGIFPIQ GYHSLRQLVK LSKLEVPQEI KDVIEPIKDN DAAIRNYGIE LAVSLCQELL ASGLVPLHF YTLNREMATT EVLKRLGMWT EDPRRPLPWA LSAHPKRREE DVRPIFWASR PKSIIYRTQE WDEFPNRWWG NSSSPAFGEL KDYYLFY LKS KSPKEELLKM WGEELTSEES VFEVFLYLS GEPNRNGHKV TCLPW NDEPL AAETSLLKEE LLRVNRQGIL TINSQPNING KPSSDPIVGW GPSGGYVFQK AYLEFFTSRE TAEALLQVLK KYELRVNYHL VNVKGENITN APELQPN AVT WGIFPGREII QPTV VDPVSF MFWKDEAFAL WIERWGKLYE EESPSRTIIQ YIHDNYFLVN LVDNDFPLDN CLWQVVEDTL ELLNRPTQNA RETEAP Sequence without tag. The proposed Purification-Tag is based on experiences with the expression

Product Details

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: MTHFR

Alternative Name: MTHFR ([MTHFR Products](#))

Background: Methylene tetrahydrofolate reductase (NADPH) (EC 1.5.1.53), FUNCTION: Catalyzes the conversion of 5,10-methylene tetrahydrofolate to 5-methyl tetrahydrofolate, a cosubstrate for homocysteine remethylation to methionine (PubMed:29891918). Represents a key regulatory connection between the folate and methionine cycles (Probable).
{ECO:0000269|PubMed:25736335, ECO:0000269|PubMed:29891918, ECO:0000305}.

Molecular Weight: 74.6 kDa

UniProt: [P42898](#)

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
