

Datasheet for ABIN7556263
MTHFR Protein (AA 1-654) (His tag)



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Overview

Quantity:	1 mg
Target:	MTHFR
Protein Characteristics:	AA 1-654
Origin:	Mouse
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:	<p>MVNEARGSGS PNP RSEGSSS GSESSKDSSR CSTPSLDPER HERLREKMRR RMDSGDKWFS</p> <p>LEFFPPRTAE GAVNLISRFD RMAAGGPLFV DVTWHPAGDP GSDKETSSMM IASTAVNYCG</p> <p>LETILHMTCC QQRPEEITGH LHRAKQLGLK NIMALRGDPV GDHWEAEEGG FSYATDLVKH</p> <p>IRTEFADYFD ICVAGYPRGH PDAESFEDDL KHLKEKVSAG ADFIITQLFF EASTFFSFVK</p> <p>ACTEIGISCP ILPGIFPIQG YTSRQLVKL SKLEVPQKIK DVIEPIKDND AAIRNYGIEL AVSLCRELLD</p> <p>SGLVPGLHFY TLNREVATME VLKQLGMWTE DPRRPLPWAL SAHPKRREED VRPIFWASRP</p> <p>KSIYIRTQDW DEFPNGRWGN SSSPAFGELK DYLLFYLKSK SPRELLKMW GEELTSEESV</p> <p>FEVFEHYLSG EPNRHGYRVT CLPWNDEPLA AETSLMKEEL LRVNRLGILT INSQPNINAK</p> <p>PSSDPVVGWG PSGGYVFQKA YLEFFTSRET VEALLQVLKT YELRVNYHIV DVKGENTINA</p> <p>PELQPNVATW GIFPGREIIQ PTVVDPISFM FWKDEAFALW IEQWGKLYEE ESPSRMIIQY</p> <p>IHDNYFLVNL VDNEFPLDSC LWQVVEDTFE LLNRHPTERE TQAP Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different</p>

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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:	Methylenetetrahydrofolate reductase (NADPH) (EC 1.5.1.53),FUNCTION: Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a cosubstrate for homocysteine remethylation to methionine. Represents a key regulatory connection between the folate and methionine cycles. {ECO:0000250 UniProtKB:P42898}.
Molecular Weight:	74.6 kDa
UniProt:	Q9WU20
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.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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