

MTHFD2 recombinant protein

MTHFD2, 30-350aa, Human, His tag, E Coli

CATALOG # AAA11827	HOST E Coli	APPLICATIONS SDS-Page
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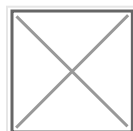
PRODUCT SYNONYMS

MTHFD2; 30-350aa; Human; His tag; E Coli; Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase mitochondrial; Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase; mitochondrial; NMDMC; MTHFD2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid, In Phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSAAVRNE AVVISGRKLA QQIKQEVQRQE VEEWVASGNK RPHLSVILVG ENPASHSYVL NKTRAAAVVG INSETIMKPA SISEEELLNL INKLNDDNV DGLLVQLPLP EHIDERRICN AVSPDKDVG FHVINVGRMC LDQYSMLPAT PWGVWEIIR TGITLGKNV VVAGRSKNVG MPIAMLLHTD GAHERPGGDA TVTISHRYTP KEQLKKHTIL ADIVISAAGI PNLITADMIK EGAVIDVGI NRVHDPVTAK PKLVGDVDFE GVRQKAGYIT PVPGGVGPMT VAMLMKNTII AAKKVLRL EE REVLKSKELG VATN
Sequence Length	350
Applicable Applications for MTHFD2 recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	30-350aa
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for MTHFD2 recombinant protein	MTHFD2 also known as Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial. MTHFD2 protein that possesses three distinct enzymatic activities, methylenetetrahydrofolate dehydrogenase, methenyltetrahydrofolate cyclohydrolase and formate-tetrahydrofolate ligase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. Recombinant human MTHFD2, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
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Product Categories/Family for MTHFD2 recombinant protein	Metabolism
References	Watkins D., et al. (2011) Genet. 48 (9): 590-2.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94721354
NCBI GeneID	10797
NCBI Accession #	NP_006627
NCBI GenBank Nucleotide #	NM_006636.3
UniProt Accession #	P13995; Q53G90; Q53GV5; Q53S36; Q7Z650
Molecular Weight	37.2 kDa (344aa) confirmed by MALDI-TOF
NCBI Official Full Name	bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial
NCBI Official Synonym Full Names	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
NCBI Official Symbol	MTHFD2
NCBI Official Synonym Symbols	NMDMC
NCBI Protein Information	bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial
UniProt Protein Name	Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial
UniProt Gene Name	MTHFD2
UniProt Synonym Gene Names	NMDMC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mthfd2-recombinant-protein-e-coli-sds-page/11827>