

Product datasheet for **TP305749M**

MTHFS (NM_006441) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase) (MTHFS), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC205749 protein sequence
Red=Cloning site **Green**=Tags(s)

MAAAVSSAKRSLRGELKQRLRAMSAEERLRQSRVLSQKVIAHSEYQKSKRISIFLSMQDEIETEEIKD
IFQRGKICFIPRYRFQSNHMDMVRIESPEEISLLPKTSWNIPQPGEGDVREEALSTGGLDLIFMPGLGFD
KHGNRLGRGKGYDAYLKRLQHQEVKPYTLALAFKEQICLQVPVNENDMKVDEVLYEDSSTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 23.1 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_006432](#)

Locus ID: 10588

UniProt ID: [P49914](#)



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RefSeq Size: 2346

Cytogenetics: 15q25.1

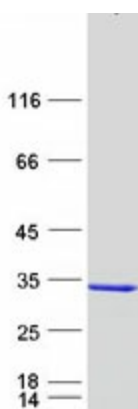
RefSeq ORF: 609

Synonyms: HsT19268; NEDMEHM

Summary: The protein encoded by this gene is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, a precursor of reduced folates involved in 1-carbon metabolism. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Protein Pathways: Metabolic pathways, One carbon pool by folate

Product images:



Coomassie blue staining of purified MTHFS protein (Cat# [TP305749]). The protein was produced from HEK293T cells transfected with MTHFS cDNA clone (Cat# [RC205749]) using MegaTran 2.0 (Cat# [TT210002]).