Recombinant Human MTHFS, His-tagged

Cat. No. MTHFS-30253TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MTHFS with an N terminal His tag; 223 amino acids with tag, Predicted MWt 25.4 kDa.
Species	Human
Source	E.coli
ProteinLength	203 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	25.400kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 0.2M Sodium chloride, 5mM DTT, 20mM Tris HCl, pH 8.0

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAAAAVSSAKRSLRGELKQRLRAMSAEERLRQSR VLSQKVIAHSEYQKSKRISIFLSMQDEIETEEIIKDIFQRGKICFIPRYRFQSNHMDMVR IESPEEISLLPKTSWNIPQPGEGDVREEALSTGGLDLIFMPGLGFDKHGNRLGRGKG YYDAYLKRCLQHQEVKPYTLALAFKEQICLQVPVNENDMKVDEVLYEDSSTA
Sequence Similarities	Belongs to the 5-formyltetrahydrofolate cyclo-ligase family.

GENE INFORMATION

Gene Name	MTHFS 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase) [Homo sapiens]
Official Symbol	MTHFS
Synonyms	MTHFS; 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase); 5-formyltetrahydrofolate cyclo-ligase; HsT19268;
Gene ID	10588
mRNA Refseq	NM_001199758
Protein Refseq	NP_001186687
MIM	604197
Uniprot ID	P49914

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Chromosome Location	15q24.3
Pathway	Metabolic pathways, organism-specific biosystem; One Carbon Metabolism, organism-specific biosystem; One carbon pool by folate, organism-specific biosystem; One carbon pool by folate, conserved biosystem;
Function	5-formyltetrahydrofolate cyclo-ligase activity; 5-formyltetrahydrofolate cyclo-ligase activity; ATP binding; folic acid binding; ligase activity;

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