

Recombinant Human MTHFS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTHFS-5880H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MTHFS MS Standard C13 and N15-labeled recombinant protein (NP_006432) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	23.3 kDa
AA Sequence	MAAAVSSAKRSLRGELKQRLRAMSAEERLRQSRVLSQKVIAHSEYQKSKRISIFLS MQDEIETEEIHKDIFQRGKICFIPRYRFQSNHMDMVRIESPEEISLLPKTSWNIPQPGE GDVREEALSTGGDLIFMPGLGFDKHGNRLGRGKGYYDAYLKRCLQHQEVPYTLA LAFKEQICLQVPVNENDMKVDEVLYEDSSTATRTRPLEQKLISEEDLAANDILDYKDD DDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling

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conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MTHFS methenyltetrahydrofolate synthetase [Homo sapiens (human)]

Official Symbol MTHFS

Synonyms MTHFS; 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase); 5-formyltetrahydrofolate cyclo-ligase; HsT19268; methenyl-THF synthetase; FLJ30410;

Gene ID 10588

mRNA Refseq NM_006441

Protein Refseq NP_006432

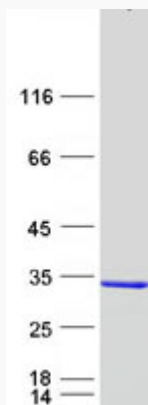
MIM 604197

UniProt ID P49914

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SDS-PAGE

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