

Recombinant Full Length Human MTHFR Protein, C-Flag-tagged

Cat. No. MTHFR-1253HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MTHFR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	74.4 kDa
AA Sequence	MVNEARGNSSLNPCLEGSASSGSESSKDSSRCSTPGLDPERHERLREKMRRRLRES GDKWFSLEFFPPRTA EGAVNLISRFDMAAGGPLYIDVTWHPAGDPGSDKETSSM MIASTAVNYCGLETILHMTCCRQRLEEITG HLHKAKQLGLKNIMALRGDPIGDQWEE EEGGFNAYVDLVKHIRSEFGDYFDICVAGYPKGHPHPEAGSFEAD LKHLKEKVSAGAD FIITQLFFEADTFFRFVKACTDMGITCPIVPGIFPIQGYHSLRQLVKLSKLEVPQEI KDV IEPIKDNDAAIRNYGIELAVSLCQELLASGLVPGHLHFYTLNREMATTEVLKRLGMWTE

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DPRRPLPWA LSAHPKRREEDVRPIFWASRPKSYIYRTQEWDEFPNGRWGNSSSPA
 FGELKDYYLFYLSKSPKEELLKM WGEELTSEASVFEVFLYLSGEPNRNGHKVTC
 LPWNDEPLAAETSLLELLRVNRQGILTINSQPNING KPSSDPIVGWGPSSGGYVFQ
 KAYLEFFTSRETAEALLQVLKKYELRVNYHLVNVKGENITNAPELQPNVAVT WGIFPG
 REIIQPTVVDPVSFMFWKDEAFALWIEQWGKLYEEESPSRTIIQYIHDNYFLVNLVDN
 DFPLDN
 CLWQVVEDTLELLNRPTQNARETEAPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Methane metabolism, One carbon pool by folate
Full Length	Full L.

GENE INFORMATION

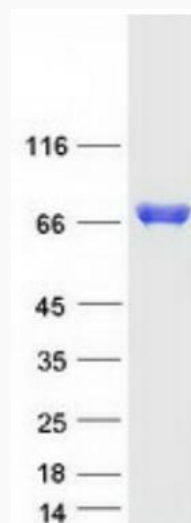
Gene Name	MTHFR methylenetetrahydrofolate reductase [Homo sapiens (human)]
Official Symbol	MTHFR

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Synonyms	5,10-methylenetetrahydrofolate reductase (NADPH); methylenetetrahydrofolate reductase intermediate form; OTTHUMP00000002367; OTTHUMP00000002368
Gene ID	4524
mRNA Refseq	NM_005957.5
Protein Refseq	NP_005948.3
MIM	607093
UniProt ID	P42898



Coomassie blue staining of purified MTHFR protein.