

Product datasheet for **TP308588M**

MTHFR (NM_005957) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human 5,10-methylenetetrahydrofolate reductase (NADPH) (MTHFR), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC208588 representing NM_005957 Red =Cloning site Green =Tags(s) |

MVNEARGNSSLNPCLEGSASSGSESSKDSSRCSTPGLDPERHERLREKMRRRLLESGDKWFSLEFFPPRTA
EGAVNLISFRDMAAGGPLYIDVTWHPAGDPGSDKETSSMMIASTAVNYCGLETILHMTCCRQRLLEEITG
HLHKAKQLGLKNIMALRGDPIGDQWEEEGGFNYAVDLVKHIRSEFGDYFDICVAGYPKGHPHPEAGSFEAD
LKHLKEKVSAGADFIITQLFFEADTFFRFVKACTDMGITCIVPGIFPIQGYHSLRQLVKLSKLEVPQEI
KDVEPIKDNDAAIRNYGIELAVSLCQELLASGLVPLHGFYTLNREMATTEVLKRLGMWTEPPRRPLPWA
LSAHPKRREEDVRPIFWASRPKSYIYRTQEWDEFNPNRWGNSSSPAFGELKDYYLFYLSKSPKEELLKM
WGEELTSEASVFEVFLYLSGEPNRRNGHKVTCLPWNDPELAAETSLKEELLRVNRQGILTINSQPNING
KPSSDPVIGWGPSSGGYVFQKAYLEFFTSRETAEALLQVLKKYELRVNYHLVNVKGENITNAPELQPNNAV
WGIFPGREIIQPTVVDPVSMFWKDEAFALWIEQWGLYEEESPRTIIQYIHDNYFLVNLVDNDFPLDN
CLWQVVEDTLELLNRPTQNARETEAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

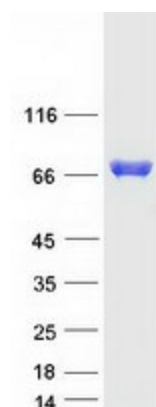
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 74.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | 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. |



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| 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: | <u>NP_005948</u> |
| Locus ID: | 4524 |
| UniProt ID: | <u>P42898</u> , <u>Q8IU67</u> , <u>Q59GJ6</u> |
| RefSeq Size: | 6099 |
| Cytogenetics: | 1p36.22 |
| RefSeq ORF: | 1968 |
| Summary: | 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.[provided by RefSeq, Oct 2009] |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Metabolic pathways, Methane metabolism, One carbon pool by folate |

Product images:



Coomassie blue staining of purified MTHFR protein (Cat# [TP308588]). The protein was produced from HEK293T cells transfected with MTHFR cDNA clone (Cat# [RC208588]) using MegaTran 2.0 (Cat# [TT210002]).