

Recombinant Human MTRR Protein (1-725 aa), GST-tagged

Cat. No. MTRR-1153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTRR Protein (1-725 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-725 aa
Description	Involved in the reductive regeneration of cob(I)alamin (vitamin B12) cofactor required for the maintenance of methionine synthase in a functional state. Necessary for utilization of methylgroups from the folate cycle, thereby affecting transgenerational epigenetic inheritance. Folate pathway donates methyl groups necessary for cellular methylation and affects different pathways such as DNA methylation, possibly explaining the transgenerational epigenetic inheritance effects.
Form	Tris-based buffer,50% glycerol
Molecular Mass	107.4 kDa
AA Sequence	MGAASVRAGARLVEVALCSFTVTCLEVMRRFLLLYATQQGQAKAIAEEICEQAVVHG FSADLHCISESDKYDLKTETAPLVVVVSTTGTGDPPDTARKFVKEIQNQTLPVDFFAH LRYGLLGLGDSEYTYFCNGGKIIDKRLQELGARHFYDTGHADDCVGLLELVPEPWIAG LWPALRKHFRSSRGQEEISGALPVASPASSRTDLVKSELLHIESQVELLRFDSDGRK

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DSEVLKQNAVNSNQSNVIEDFESSLTRSVPLSQASLNIPGLPPEYLQVHLQESLG
 QEESQVSVTSADPVFQVPISKAVQLTTNDAIKTTLLVELDISNTDFSYPGDAFSVICP
 NSDSEVQSLQLQLQLEDKREHCVLLKIKADTKKKGATLPQHIPAGCSLQFIFTWCLEI
 RAIPKKAFLRALVDYTSDSAERRLQELCSKQGAADYSRFVRDACACLLDLLAFPS
 CQPPLSLLLEHLPKLQPRPYSCASSSLFHPGKLHFVFNIVEFLSTATTEVLRKGVCTG
 WLALLVASVLQPNHASHEDSGKALAPKISIPRTTNSFHLPPDDPSIPIIMVGP GTGIAP
 FIGFLQHREKLQEHPDGNFGAMWLFFGCRHKDRDYLFRKELRHFLKHGILTHLKV
 SFSRDAPVGEEEPAPAKYVQDNIQLHGQQVARILLQENGHIYVCGDAKNMAKDVHDA
 LVQIISKEVGVEKLEAMKTLATLKEEKRYLQDIWS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name MTRR 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Homo sapiens]

Official Symbol MTRR

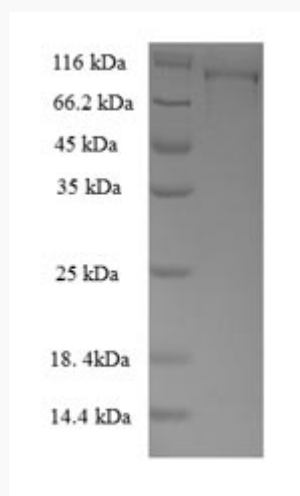
Synonyms MTRR; cbIE; MSR; MGC129643;

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Gene ID	4552
mRNA Refseq	NM_002454
Protein Refseq	NP_002445
MIM	602568
UniProt ID	Q9UBK8



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.