

Recombinant Human MTRR Protein, GST-tagged

Cat. No. MTRR-5735H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MTRR partial ORF (NP_002445, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>Methionine is an essential amino acid required for protein synthesis and one-carbon metabolism. Its synthesis is catalyzed by the enzyme methionine synthase. Methionine synthase eventually becomes inactive due to the oxidation of its cob(I)alamin cofactor. The protein encoded by this gene regenerates a functional methionine synthase via reductive methylation. It is a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. Patients of the cbl-E complementation group of disorders of folate/cobalamin metabolism are defective in reductive activation of methionine synthase. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]</p>
Molecular Mass	37.84 kDa
AA Sequence	MRRFLLLYATQQGQAKAIAEEMCEQAVVHGFSA DLHCISESDKYDLKTETAPLVVVV STTGTGDPPTARKFVKEIQNQTLPVDFFAHLRYG LLGLGDSEYTYFCNGGKI
Applications	<p>Enzyme-linked Immunoabsorbent Assay</p> <p>Western Blot (Recombinant protein)</p> <p>Antibody Production</p>

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	Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	MTRR 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Homo sapiens]
Official Symbol	MTRR
Synonyms	MTRR; 5-methyltetrahydrofolate-homocysteine methyltransferase reductase; methionine synthase reductase; cbIE; methionine synthase reductase, mitochondrial; [methionine synthase]-cobalamin methyltransferase (cob(II)alamin reducing); MSR; MGC129643;
Gene ID	4552
mRNA Refseq	NM_002454
Protein Refseq	NP_002445
MIM	602568
UniProt ID	Q9UBK8

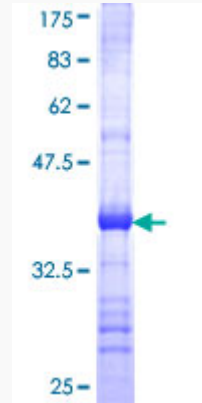
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Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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