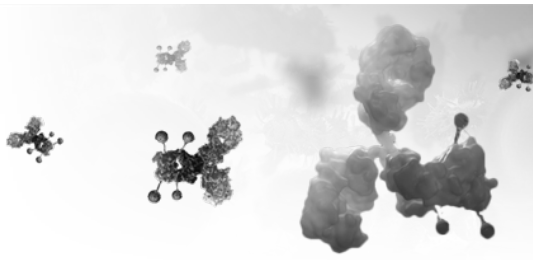

Human MTR peptide (DAG-P1757)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	MTR encodes the enzyme 5-methyltetrahydrofolate-homocysteine methyltransferase. This enzyme, also known as cobalamin-dependent methionine synthase, catalyzes the final step in methionine biosynthesis. Mutations in MTR have been identified as the underlying cause of methylcobalamin deficiency complementation group G. [provided by RefSeq, Jul 2008]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MTR 5-methyltetrahydrofolate-homocysteine methyltransferase [Homo sapiens (human)]
Official Symbol	MTR
Synonyms	MTR; 5-methyltetrahydrofolate-homocysteine methyltransferase; MS; HMAG; cblG; methionine synthase; cobalamin-dependent methionine synthase; vitamin-B12 dependent methionine synthase; 5-methyltetrahydrofolate-homocysteine methyltransferase 1;
Entrez Gene ID	4548
mRNA Refseq	NM_000254.2
Protein Refseq	NP_000245.2

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UniProt ID	Q99707
Chromosome Location	1q43
Pathway	Biological oxidations, organism-specific biosystem; Biosynthesis of amino acids, organism-specific biosystem; Biosynthesis of amino acids, conserved biosystem; Cobalamin (Cbl, vitamin B12) transport and metabolism, organism-specific biosystem; Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Defective AMN causes hereditary megaloblastic anemia 1, organism-specific biosystem; Defective BTD causes biotidinase deficiency, orga
Function	cobalamin binding; homocysteine S-methyltransferase activity; methionine synthase activity; zinc ion binding;

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