

Recombinant Mouse Mtrr Protein, His-tagged

Cat. No. Mtrr-1800M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mtrr Protein (Asp269-Pro531) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Asp269-Pro531
Description	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. Mutations in a similar gene in human have been associated with cblE complementation type homocystinuria-megaloblastic anemia and susceptibility to folate-sensitive neural tube defects. Alternative splicing of this gene results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.9 kDa Accurate Molecular Mass: 33 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Mtrr 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Mus musculus (house mouse)]
Official Symbol	Mtrr
Synonyms	MTRR; 5-methyltetrahydrofolate-homocysteine methyltransferase reductase; methionine synthase reductase; MSR; 4732420G08;
Gene ID	210009
mRNA Refseq	NM_172480
Protein Refseq	NP_766068
UniProt ID	Q8C1A3

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