

Recombinant Rat Mtrr Protein, His-tagged

Cat. No. Mtrr-1801R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Mtrr Protein (Asp272-Pro534) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Asp272-Pro534
Description	Predicted to enable NADPH-hemoprotein reductase activity; [methionine synthase] reductase activity; and nucleotide binding activity. Predicted to be involved in several processes, including S-adenosylmethionine cycle; carboxylic acid metabolic process; and negative regulation of cystathionine beta-synthase activity. Predicted to be located in intermediate filament cytoskeleton and nucleoplasm. Predicted to be active in cytosol. Human ortholog(s) of this gene implicated in several diseases, including endocrine gland cancer (multiple); heart disease (multiple); hematologic cancer (multiple); homocystinuria; and homocystinuria-megaloblastic anemia cblE type. Orthologous to human MTRR (5-methyltetrahydrofolate-homocysteine methyltransferase reductase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.9 kDa Accurate Molecular Mass: 33 kDa
Purity	> 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 [Rattus norvegicus (Norway rat)]
Official Symbol	Mtrr
Synonyms	MTRR; 5-methyltetrahydrofolate-homocysteine methyltransferase reductase; methionine synthase reductase; MSR; MGC112912;
Gene ID	290947
mRNA Refseq	NM_001039003
Protein Refseq	NP_001034092
UniProt ID	Q498R1

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