

Recombinant Rat Mtrr Protein, His-tagged

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

SPECIFICATION

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| 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% |

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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

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| 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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