



Recombinant Protein Technical Manual

Recombinant Human MTHFS Protein (His Tag)

RPES1800

Product Data:

Product SKU: RPES1800

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P49914

Protein Information:

Molecular Mass: 24.3 kDa

AP Molecular Mass: 28 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 200mM NaCl, 1mM DTT, 50% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 5-formyltetrahydrofolate cyclo-ligase; 5,10-methenyl-tetrahydrofolate synthetase; MTHFS; Methenyl-THF synthetase

Immunogen Information:

Sequence: Met 1-Ala203

Background:

5-formyltetrahydrofolate cyclo-ligase (MTHFS) belongs to the 5-formyltetrahydrofolate cyclo-ligase family. It is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, contributes to tetrahydrofolate metabolism. MTHFS helps regulate carbon flow through the folate-dependent one-carbon metabolic network that supplies carbon for the biosynthesis of purines, thymidine and amino acids. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion.