

## Product datasheet for **TP721196**

### **MTHFS (NM\_006441) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase) (MTHFS), transcript variant 1
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Met1-Ala203
Tag:	C-His
Predicted MW:	24.3 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_006432</a>
Locus ID:	10588
UniProt ID:	<a href="#">P49914</a>
RefSeq Size:	2346
Cytogenetics:	15q25.1
RefSeq ORF:	609
Synonyms:	HsT19268; NEDMEHM



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**Summary:**

The protein encoded by this gene is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, a precursor of reduced folates involved in 1-carbon metabolism. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

**Protein Pathways:**

Metabolic pathways, One carbon pool by folate