

# Recombinant Full Length Human MTHFD1 Protein, GST-tagged

Cat. No. MTHFD1-6527HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MTHFD1 full-length ORF ( AAH09806, 1 a.a. - 935 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	935 amino acids
<b>Description</b>	This gene encodes a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain. [provided by RefSeq]
<b>Molecular Mass</b>	128.59 kDa
<b>AA Sequence</b>	MAPAEILNGKEISAQIRARLKNQVTLKEQVPGFTPLRLAILQVGNRDDSPLYINVKLK AAEEIGIKATHIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIA PEKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIV GAPMHDLLLWNNATVTTCHSKTAHLDEEVNKGDILVVATGQPEMVKGWIKPGAIVI DCGINYPDDKKPNGRKVVGDVAYDEAKERASFITPVPGGVGPMTVAMLMQSTVE

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SAKRFLEKFKPGKWMIQYNNLNLKTPVPSDIDISRCKPKPIGKLAREIGLLSEEVELY  
GETKAKVLLSALERLKHPRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLYQNVF  
ACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNHLHTGDIHAITAANNLVAAAIDARI  
FHELTQTDKALFNRLVPSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINRFARLDI  
DPETITWQRVLDTNDRFLRKITIGQAPTEKGHTRTAQFDISVASEIMAVLALTTSLDM  
RERLGKMMVASSKKGEPVSAEDLGVSGALTVLMKDAIKPNLMQTLEGTPVVFHAGP  
FANIAHGSSIIADQIALKLVGPEGFVVTEAGFGADIGMEKFFNIKCRYSGLCPHVVVL  
VATVRALKMHGGGPTVTAGLPLPKAYIQENLELVEKGFNSLKKQIENARMFIPVVV  
AVNAFKTDTESELDLISRLSREHGAFDAVKCTHWAEGGKGALALAQAVQRAAQAPS  
SFQLLYDLKLPVEDKIRIIAQKIYGADDIELLPEAQHKAEVYTKQGFNLPICMAKTHLS  
LSHNPEQKGVPTGFILPIRDIRASVGAGFLYPLVGTMTMPGLPTRPCFYDIDLDPET  
EQVNGLF

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

MTHFD1 methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1,  
methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase [ Homo  
sapiens ]

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<b>Official Symbol</b>	MTHFD1
<b>Synonyms</b>	MTHFD1; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase; MTHFC, MTHFD; C-1-tetrahydrofolate synthase, cytoplasmic; C1-THF synthase; cytoplasmic C-1-tetrahydrofolate synthase; 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methylenetetrahydrofolate cyclohydrolase, 10-formyltetrahydrofolate synthetase; MTHFC; MTHFD;
<b>Gene ID</b>	4522
<b>mRNA Refseq</b>	NM_005956
<b>Protein Refseq</b>	NP_005947
<b>MIM</b>	172460
<b>UniProt ID</b>	P11586

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