

# Recombinant Full Length Human MTHFD1 Protein

**Cat. No.** MTHFD1-313HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human MTHFD1 with a N terminal proprietary tag: predicted MW 128.59 kDa.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</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.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	128.590kDa inclusive of tags
<b>AA Sequence</b>	MAPAEILNGKEISAQIRARLKNQVTLKEQVPGFTPLAI LQVGNRDDSPLYINVKLK AAEEIGIKATHIKLPRTTTESE VMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAI AP EKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELIKETG VPIAGRHAVVVGRSK

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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



IVGAPMHDLLLWNNATVTTCHSKTA HLDEEVNKGDILVVATGQPEMVKGEWIKPGAI  
VIDCGINY VPDDKKPNGRKVVGDVAYDEAKERASFITVPPGGVGPMTV AMLMQST  
VESAKRFLEKFKPGKWWMIQYNNLNLKTPVPSDI DISRSCKPKPIGKLAREIGLLSEEV  
ELYGETKAKVLLSAL ERLKHRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAH LY  
QNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNL HLTGDIHAITAANNLVAA  
AIDARIFHELTQTDKALFNRLV PSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINR  
FAR LDIDPETITWQRVLDTNDRFLRKITIGQAPTEKGHTRTAQ FDISVASEIMAVLAL  
TTSLEDMRERLGMVVASSKKGEPV SAEDLGVSGALTVLMKDAIKPNLMQTLEGTP  
VFBHAGPFA NIAHGNSIIADQIALKLVGPEGFVVTEAGFGADIGMEKF FNIKCRYSG  
LCPHVVLVATVRALKMHGGGPTVTAGLPLP KAYIQENLELVEKGFSNLKKQIENAR  
MFGIPVVAVNAFK TDTESELDLISRLSREHGAFDAVKCTHWAEGGKALALAQ AV  
QRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIE LLPEAQHKAEVYTKQGFNL  
PICMAKTHLSLSHNPEQKGV PTGFILPDIRASVGAGFLYPLVGTMTMPGLPTRP  
CFY DIDLDPETEQVNGLF

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

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

**Official Symbol** MTHFD1

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<b>Synonyms</b>	MTHFD1; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase; MTHFC, MTHFD; C-1-tetrahydrofolate synthase, cytoplasmic
<b>Gene ID</b>	<a href="#">4522</a>
<b>mRNA Refseq</b>	<a href="#">NM_005956</a>
<b>Protein Refseq</b>	<a href="#">NP_005947</a>
<b>MIM</b>	<a href="#">172460</a>
<b>UniProt ID</b>	<a href="#">P11586</a>

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