

Recombinant Full Length Human MTHFD1 Protein

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

SPECIFICATION

Product Overview	Recombinant full length Human MTHFD1 with a N terminal proprietary tag: predicted MW 128.59 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	935 amino acids
Description	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.
Form	Liquid
Molecular Mass	128.590kDa inclusive of tags
AA Sequence	MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPLAI LQVGNRDDSPLYINVKLK AAEEIGIKATHIKLPRTTTESE VMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAI AP EKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELIKETG VPIAGRHAVVVGRSK

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IVGAPMHDLLLWNNATVTTCHSKTA HLDEEVNKGDILVVATGQPEMVKGWIKPGAI
VIDCGINY VPDDKKPNGRKVVGDVAYDEAKERASFITVPVGGVGPMTV AMLMQST
VESAKRFLEKFKPGKWMIQYNNLNLKTPVPSDI DISRSCKPKPIGKLAREIGLLSEEV
ELYGETKAKVLLSAL ERLKHRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAH LY
QNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNL HLTGDIHAITAANNLVAA
AIDARIFHELTQTDKALFNRLV PSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINR
FAR LDIDPETITWQRVLDTNDRFLRKITIGQAPTEKGHTRTAQ FDISVASEIMAVLAL
TTSLEDMRERLGKMMVASSKKGEPV SAEDLGVSGALTVLMKDAIKPNLMQTLEGTP
VFBHAGPFA NIAHGNSIIADQIALKLVGPEGFVVTEAGFGADIGMEKF FNIKCRYSG
LCPHVVLVATVRALKMHGGGPTVTAGLPLP KAYIQENLELVEKGFSNLKKQIENAR
MFGIPVVAVNAFK TDTESELDISRLSREHGAFDAVKCTHWAEGGKGALALAQ AV
QRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIE LLPEAQHKAEVYTKQGFGNL
PICMAKTHLSLSHNPEQKGV PTGFILPIRDIRASVGAGFLYPLVGTMTMPGLPTRP
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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Synonyms	MTHFD1; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase; MTHFC, MTHFD; C-1-tetrahydrofolate synthase, cytoplasmic
Gene ID	4522
mRNA Refseq	NM_005956
Protein Refseq	NP_005947
MIM	172460
UniProt ID	P11586

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