

Recombinant Human MTHFD1 Protein, GST-tagged

Cat. No. MTHFD1-5702H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MTHFD1 full-length ORF (AAH09806, 1 a.a. - 935 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1-935 aa
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. [provided by RefSeq
Molecular Mass	128.59 kDa
AA Sequence	MAPAEILNGKEISAQIRARLKNQVTLKEQVPGFTPLAILQVGNRDDSPLYINVKLK AAEEIGIKATHIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIA PEKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIV GAPMHDLLLWNNATVTTCHSKTAHLDEEVNKGDILVVATGQPEMVKGWIKPGAIVI DCGINYPDDKKPNGRKVVGDVAYDEAKERASFITVPPGGVGPMTVAMLMQSTVE

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SAKRFLEKFKPGKWMIQYNNLNLKTPVPSDIDISRCKPKPIGKLAREIGLLSEEVELY
GETKAKVLLSALERLKHPRPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLYQNVF
ACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNHLHTGDIHAITAANNLVAAAIDARI
FHELTQTDKALFNRLVPSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINRFARLDI
DPETITWQRVLDTNDRFLRKITIGQAPTEKGHTRTAQFDISVASEIMAVLALTTSL EDM
RERLGKMMVASSKKGEPVSAEDLGVSGALTVLMKDAIKPNLMQTLEGTPVVFHAGP
FANIAHGNSIIADQIALKLVGPEGFVVTEAGFGADIGMEKFFNIKCRYSGLCPHVVVL
VATVRALKMHGGGPTVTAGLPLPKAYIQENLELVEKGFNSLKKQIENARMFIPVVV
AVNAFKTDTESEL DLISRLSREHGAFDAVKCTHWAEGGKGALALAQAVQRAAQAPS
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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Official Symbol	MTHFD1
Synonyms	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;
Gene ID	4522
mRNA Refseq	NM_005956
Protein Refseq	NP_005947
MIM	172460
UniProt ID	P11586

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