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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

MTHFD1 (Human) Recombinant Protein (P01)

Catalog Number: H00004522-P01

Regulation Status: For research use only (RUO)

Product Description: Human MTHFD1 full-length ORF (AAH09806, 1 a.a. - 935 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRL
AILQVGNRDDSPLYINVKLAAEEIGIKATHIKLPRTTTE
SEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINA
IAPEKDVDGLTSINAGRLARGDLNDCFIPCTPKGCLELI
KETGVPIAGRHAVVVGRSKIVGAPMHDLLWNNATVT
TCHSKTAHLDEEVNKGDILVVATGQPEMVKGWIKPG
AIVIDCGINYPDDKPKNGRKVVGDVAYDEAKERASFI
TPVPGGVGPMTVAMLMQSTVESAKRFLEKFKPGKWM
IQYNNLNLKTPVPSDIDISRCKPKPIGKLAREIGLLSEE
VELYGETKAKVLLSALERLKHDPDGKYVVVTGITPTPL
GEGKSTTTIGLVQALGAHLYQNVFACVRQPSQGPTFG
IKGGAAGGGYSQVIPMEEFNLHLTGDIHAITAANNLVA
AAIDARIFHELTQTDKALFNRLVPSVNGVRRFSDIQIRR
LKRLGIEKTDPTTLTDEEINRFARLDIDPETITWQRVLD
NDRFLRKITIGQAPTEKGHTRTAQFDISVASEIMAVLAL
TTSLEDMRERLGMVVASSKKGEPVSAEDLGVSGALT
VLMKDAIKPNLMQTLEGTPVFVHAGPFANIAHGNSSIIA
DQIALKLVGPEGFVVTEAGFGADIGMEKFFNIKCRYS
LCPHVVVVLVATVRALKMHGGGPTVTAGLPLPKAYIQE
NLELVEKGFNSLKKQIENARMFGIPVVAVNAFKTDTE
SELDLISRLSREHGAFDAVKCTHWAEGGKALALAQA
VQRAAQAPSSFQLLYDLKLPVEDKIRIIAQKIYGADDIEL
LPEAQHKAEVYTKQGFNLPCMAKTHLSLSHNPEQK
GVPTGFILPIRDIRASVGAGFLYPLVGTMTMPGLPTR
PCFYDIDLDPETEQVNGLF

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 128.59

Applications: AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

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

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4522

Gene Symbol: MTHFD1

Gene Alias: MTHFC, MTHFD

Gene Summary: 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]