

Product datasheet for **TP302143L**

MTHFD2 (NM_006636) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase (MTHFD2), nuclear gene encoding mitochondrial protein, tra, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202143 protein sequence Red =Cloning site Green =Tags(s)
	<p>MAATSLMSALAARLLQPAHSCSLRLRPFHLAAVRNEAWISGRKLAQQIKQEVQRQVEEWWASGNKRPHL SVILVGENPASHSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNNDNDVGLLVQLPLPEHID ERRICNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGVWEIIRKRTGIPTLGKNVVAGRSKNVGMPIA MLLHTDGAHERPGDATVTISHRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVH DPVTAKPKLVGDVDFEGVRQKAGYITVPPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	34.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_006627</u>



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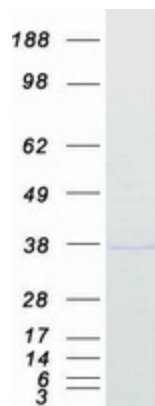
Locus ID: 10797
UniProt ID: [P13995](#)
RefSeq Size: 2208
Cytogenetics: 2p13.1
RefSeq ORF: 1050
Synonyms: NMDMC

Summary: This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase activities. The enzyme functions as a homodimer and is unique in its absolute requirement for magnesium and inorganic phosphate. Formation of the enzyme-magnesium complex allows binding of NAD. Alternative splicing results in two different transcripts, one protein-coding and the other not protein-coding. This gene has a pseudogene on chromosome 7. [provided by RefSeq, Mar 2009]

Protein Families: Druggable Genome

Protein Pathways: Glyoxylate and dicarboxylate metabolism, Metabolic pathways, One carbon pool by folate

Product images:



Coomassie blue staining of purified MTHFD2 protein (Cat# [TP302143]). The protein was produced from HEK293T cells transfected with MTHFD2 cDNA clone (Cat# [RC202143]) using MegaTran 2.0 (Cat# [TT210002]).