

Product datasheet for TP302143

OriGene Technologies, Inc.

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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, 20 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC202143 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MAATSLMSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVRQEVEEWVASGNKRPHL SVILVGENPASHSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNNDDNVDGLLVQLPLPEHID ERRICNAVSPDKDVDGFHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIA MLLHTDGAHERPGGDATVTISHRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVH DPVTAKPKLVGDVDFEGVRQKAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 34.7 kDa

Concentration: $>0.05 \mu g/\mu L$ 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: NP 006627



MTHFD2 (NM_006636) Human Recombinant Protein - TP302143

Locus ID: 10797

UniProt ID:P13995RefSeq Size:2208Cytogenetics:2p13.1RefSeq ORF:1050Synonyms:NMDMC

Summary: This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with

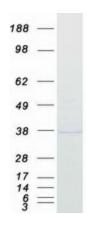
methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase activities. The enzyme functions as a homodimer and is unique in its absolute requirement for magnesium and inorganic phosphate. Formation of the enzyme-magnesium complex allows binding of NAD. Alternative splicing results 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