

Product datasheet for PH302143

MTHFD2 (NM_006636) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MTHFD2 MS Standard C13 and N15-labeled recombinant protein (NP_006627)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202143
Predicted MW:	37.9 kDa
Protein Sequence:	>RC202143 protein sequence Red=Cloning site Green=Tags(s)

MAATSLMSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQEVEEWVAVSGNKRPHL
SVILVGENPASHSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNDDNVDGLLVQLPLPEHID
ERRICNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVAVAGRSKNVGMPIA
MLLHTDGAHERPGGDATVTISHRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVH
DPVTAKPKLVGDVDFEGVRQKAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006627</u>
RefSeq Size:	2208
RefSeq ORF:	1050
Synonyms:	NMDMC
Locus ID:	10797



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UniProt ID: [P13995](#)

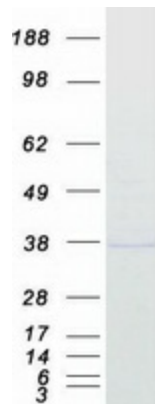
Cytogenetics: 2p13.1

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]).