Recombinant Human MTHFD2, T7-tagged

Cat. No. MTHFD2-393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTHFD2 was expressed in*E.Coli*using an N-terminal T7 tag. MW=39.56 kDa.
Species	Human
Source	E.coli
Description	This is 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.
Sequence	1-344.
Purity	~95%.
Specific Activity	n/aH.
Applications	This recombinant protein can be used for WB, ELISA, MS and neutralization assays.
Buffer	10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN3.
Storage	Store at -70?C. As with any protein, exposing MTHFD2 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care

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	should be taken to keep recombinant protein at a cool and stable temperature.
SDS-PAGE	SDS PAGE Analysis of MTHFD2 Recombinant Protein. 4-20% SDS gradient gel. Coo massie blue staining.

GENE INFORMATION

Gene Name	MTHFD2 methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Homo sapiens]
Synonyms	MTHFD2; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase; NMDMC; methylenetetrahydrofolate dehydrogenase 2; NAD-dependent methylene tetrahydrofolate dehydrogenase cyclohydrolase methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase; EC 1.5.1.15
Gene ID	10797
mRNA Refseq	NM_006636
Protein Refseq	NP_006627
MIM	604887
UniProt ID	P13995
Chromosome Location	2p13.1
Pathway	Glyoxylate and dicarboxylate metabolism; Metabolic pathways; One carbon pool by folate

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Function	binding; hydrolase activity; methenyltetrahydrofolate cyclohydrolase activity; methylenetetrahydrofolate dehydrogenase (NADP+) activity; oxidoreductase activity; phosphate binding

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