Recombinant Human MTHFD2 Protein, His-tagged

Cat. No. MTHFD2-571H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTHFD2(Met103-Asn350) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	103-350 a.a.
Description	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.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 100 mM Arg. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	37.895 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	MTHFD2 methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Homo sapiens]
Official Symbol	MTHFD2
Synonyms	MTHFD2; methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase; bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial; NAD-dependent methylene tetrahydrofolate dehydrogenase cyclohydrolase; NMDMC;
Gene ID	10797
mRNA Refseq	NM_006636
Protein Refseq	NP_006627
MIM	604887
UniProt ID	P13995

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