

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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