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**Product Data Sheet**


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Product Name: MTHFD2 Human

Cat. No.: GP21960

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase; mitochondrial; NAD-dependent methylenetetrahydrofolate dehydrogenase; Methenyltetrahydrofolate cyclohydrolase; NMDMC; MTHFD2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSLAAVRNE AVVISGRKLA QQIKQEVQRQ VEEWVASGNK RPHLSVILVG ENPASHSYVL NKTRAAAVVG INSETIMKPA SISEEELLNL INKLNDDNV DGLLVQLPLP EHIDERRICN AVSPDKDVDG FHVINVGRMC LDQYSMLPAT PWGVWEIIR TGIPTLGKNV VVAGRSKNVG MPIAMLLHTD GAHERPGGDA TVTISHRYTP KEQLKKHTIL ADIVISAAGI PNLITADMIK EGAAVIDVGI NRVHDPVTAK PKLVGDVDFE GVRQKAGYIT PVPGGVGPMT VAMLMKNTII AAKKVLRL EE REVLKSKELG VATN.		
Formulation	The MTHFD2 solution (1mg/ml) contains Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

**Introduction**

MTHFD2 plays a role as a homodimer which requires magnesium and inorganic phosphate. MTHFD2 has a pseudogene on chromosome 7 and owns 3 different enzymatic activities. Each of the activities catalyzes 1 of 3 sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

MTHFD2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 344 amino acids (30-350) and having a molecular mass of 37.2kDa. MTHFD2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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