

## 32-6854: MTHFD2 Human

**Alternative Name :** Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial, NAD-dependent methylenetetrahydrofolate dehydrogenase, Methenyltetrahydrofolate cyclohydrolase, NMDMC, MTHFD2.

### Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

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.

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.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** The MTHFD2 solution (1mg/ml) contains Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSLAAVRNE AVVISGRKLA QQIKQEVQRQE VEEWVASGNK  
RPHLSVILVG ENPASHSYVL NKTRAAAVVG INSETIMKPA SISEEELLNL INKLNDDNV DGLLVQLPLP  
EHIDERRICN AVSPDKDVDG FHVINVGRMC LDQYSMLPAT PWGVWEIIR TGIPTLGKNV VVAGRSKNVG  
MPIAMLLHTD GAHERPGGDA TVTISHRYTP KEQLKKHTIL ADIVISAAGI PNLITADMIK EGAVIDVGI  
NRVHDPVTAK PKLVGDVDFE GVRQKAGYIT PVPGGVGPMT VAMLMKNTII AAKKVLRLLEE REVLKSKELG  
VATN.