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Recombinant human MTHFD2 protein

Catalog Number: ATGP2972

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-350aa

UniProt No.

P13995

NCBI Accession No.

NP 006627.2

Alternative Names

Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase mitochondrial, Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial, NMDMC

PRODUCT SPECIFICATION

Molecular Weight

37.2 kDa (344aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

MTHFD2 also known as Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial. MTHFD2 protein that possesses three distinct enzymatic activities, methylenetetrahydrofolate dehydrogenase, methenyltetrahydrofolate cyclohydrolase and formate-tetrahydrofolate ligase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. Recombinant human MTHFD2, fused to



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His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

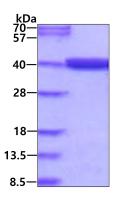
<MGSSHHHHHH SSGLVPRGSH MGS>LAAVRNE AVVISGRKLA QQIKQEVRQE VEEWVASGNK RPHLSVILVG ENPASHSYVL NKTRAAAVVG INSETIMKPA SISEEELLNL INKLNNDDNV DGLLVQLPLP EHIDERRICN AVSPDKDVDG FHVINVGRMC LDQYSMLPAT PWGVWEIIKR TGIPTLGKNV VVAGRSKNVG MPIAMLLHTD GAHERPGGDA TVTISHRYTP KEQLKKHTIL ADIVISAAGI PNLITADMIK EGAAVIDVGI NRVHDPVTAK PKLVGDVDFE GVRQKAGYIT PVPGGVGPMT VAMLMKNTII AAKKVLRLEE REVLKSKELG VATN

General References

Watkins D., et al. (2011) Genet. 48 (9): 590-2.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

