

32-2570: MTHFS Recombinant Protein

Alternative Name : 5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase),HsT19268,Methenyl-THF synthetase,FLJ30410,EC 6.3.3.2.

Description

Source : Escherichia Coli. MTHFS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 223 amino acids (1-203a.a.) and having a molecular mass of 25.4 kDa. MTHFS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. MTHFS is a cytosolic protein which takes part in the formate metabolic process. MTHFS along with a magnesium cofactor catalyzes the ATP-dependent reaction which reduces 5-formyltetrahydrofolate (5-MTHF) to 5,10-methenyltetrahydrofolate(MTHF). MTHF is the substrate used by MTHFR (methylene tetrahydrofolate reductase) to generate 5-MTHF. In addition, MTHF is a coenzyme used in thymidine biosynthesis by thymidylate synthase (FAD).

Product Info

Amount : 25 µg
Purification : Greater than 95% as determined by SDS-PAGE.
Content : The MTHFS protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 200mM NaCl, 5mM DTT and 30% glycerol.
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 it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SGLVPRGSH MAAA VSSAK RSLRGELKQR LRAMSAEERL RQSRVLSQKV
IAHSEYQKSK RISIFLSMQD EIETEEI IKD IFQRGKICFI PRYRFQSNHM DMVRIESPEE
ISLLPKTSWN IPQPGE GDVR EEALSTGGLD LIFMPGLGFD KHGNRLGRGK GYYDAYLKRC
LQHQEVKPYT LALAFKEQIC LQVPVNENDM KVDEVLYEDS STA

