
Product Data Sheet

Product Name: MTHFS Human
 Cat. No.: GP21961
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase); HsT19268; Methenyl-THF synthetase; FLJ30410; EC 6.3.3.2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAAAAVSSAK RSLRGELKQR LRAMSAEERL RQSRVLSQKV IAHSEYQKSK RISIFLSMQD EIETEEIKD IFQRGKICFI PRYRFQSNHM DMVRIESPEE ISLLPKTSWN IPQPGEGDVR EEALSTGGLD LIFMPGLGFD KHGNRLGRGK GYYDAYLKRC LQHQEVKPYT LALAFKEQIC LQVPVNENDM KVDEVLYEDS STA		
Formulation	The MTHFS protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 200mM NaCl, 5mM DTT and 30% glycerol.		

Introduction

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 (methylenetetrahydrofolate reductase) to generate 5-MTHF. In addition, MTHF is a coenzyme used in thymidine biosynthesis by thymidylate synthase (FAD).

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.

Background

MTHFS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 223

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

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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.

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