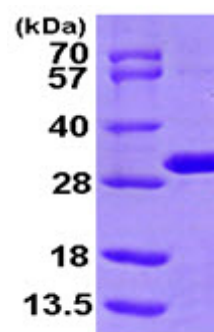


AR09916PU-N

Human MTHFS (1-203, His-tag) - Purified

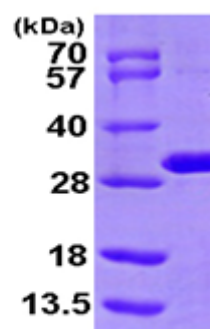
Alternate names:	10-methenyl-tetrahydrofolate synthetase, 5, 5-formyltetrahydrofolate cyclo-ligase, Methenyl-THF synthetase
Quantity:	0.1 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	MTHFS, also known as 5-formyltetrahydrofolate cyclo-ligase, is a cytosolic protein involved in the formate metabolic process. MTHFS, with a magnesium cofactor, catalyzes the ATP-dependent reaction that reduces 5-formyltetrahydrofolate (5-MTHF) to 5,10-methenyltetrahydrofolate (MTHF). MTHF is the substrate used by MTHFR (methylenetetrahydrofolate reductase) to generate 5-MTHF. MTHF is also a coenzyme used in thymidine biosynthesis by thymidylate synthase (FAD).
Uniprot ID:	P49914
NCBI:	NP_001186687
GeneID:	10588
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 0.2M NaCl
Description:	Recombinant human MTHFS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHH SSGLVPRGSH MAAAVSSAK RSLRGELKQR LRMSAEERL RQSRVLSQKV IAHSEYQSK RISIFLSMQD EIETEEIKD IFQRGKICFI PRYRFQSNHM DMVRIESPEE ISLLPKTSWN IPQPGEGDVR EEALSTGGLD LIFMPGLGFD KHGNRLGRGK GYYDAYLKRC LQHQEVKPYT LALAFKEQIC LQVPVNENDM KVDEVLYEDS STA Molecular weight: 25.4 kDa (223aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Field, M.S., et al. (2006) J. Biol. Chem. 281: 4215-4221. Lim, U., et al. (2007) Blood 109: 3050-3059.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human MTHFS, 1-203 aa,
His-tagged



15% SDS-PAGE (3ug)