

Product datasheet for PH305749

MTHFS (NM_006441) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MTHFS MS Standard C13 and N15-labeled recombinant protein (NP_006432)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205749
Predicted MW:	23.3 kDa
Protein Sequence:	>RC205749 protein sequence Red=Cloning site Green=Tags(s) MAAAAVSSAKRSLRGELKQRLRAMSAEERLRQSRVLSQKVIAHSEYQKSKRISIFLSMQDEIETEEIIKD IFQRGKICFIPRYRFQSNHMDMVRIESPEEISLLPKTSWNIPQPGEGDVREEALSTGGLDLIFMPGLGFD KHGNRLGRGKGYDAYLKRCLQHQEVKPYTLALAFKEQICLQVPVNENDMKVDEVLYEDSSTA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006432
RefSeq Size:	2346
RefSeq ORF:	609
Synonyms:	HsT19268; NEDMEHM
Locus ID:	10588
UniProt ID:	P49914



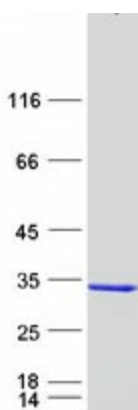
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Cytogenetics: 15q25.1

Summary: The protein encoded by this gene is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, a precursor of reduced folates involved in 1-carbon metabolism. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Protein Pathways: Metabolic pathways, One carbon pool by folate

Product images:



Coomassie blue staining of purified MTHFS protein (Cat# [TP305749]). The protein was produced from HEK293T cells transfected with MTHFS cDNA clone (Cat# [RC205749]) using MegaTran 2.0 (Cat# [TT210002]).