

Product datasheet for PH308588

MTHFR (NM_005957) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MTHFR MS Standard C13 and N15-labeled recombinant protein (NP_005948)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208588
Predicted MW:	74.4 kDa
Protein Sequence:	>RC208588 representing NM_005957 Red=Cloning site Green=Tags(s)

MVNEARGNSSLNPCLEGSASSGSESSKDSRCSTPGLDPERHERLREKMRRRLESGDKWFSLEFFPPRTA
EGAVNLI SRFDRMAAGGPLYIDVTWHPAGDPGSDKETSSMMIASTAVNYCGLETILHMTCCRQRLEEITG
HLHKAKQLGLKNIMALRGDPIGDQWEEEGGFNYAVDLVKHIRSEFGDYFDICVAGYKPGHPEAGSFEAD
LKHLKEKVSAGADFIITQLFFEADTFFRFVKACTDMGITCPIVPGIFPIQGYHSLRQLVKLSKLEVPQEI
KDVIIEPIKDNDAAIRNYGIELAVSLCQELLASGLVPLHFYTLNREMATTEVLKRLGMWTEPPRRPLPWA
LSAHPKRREEDVRPIFWASRPKSYIYRTQEWDEFNNGRWGNSSSPAFGELKDYLLFYLKSKEELLKM
WGEELTSEASVFEVFLYLSGEPNRRNGHKVTCLPWNDPLAAETSLLKEELLRVNRQGITINSQPNING
KPSSDPIVWGWPSSGGYVFKAYLEFFTSRETAEALLQVLKYYELRVNYHLVNVKGENITNAPELQPNVAVT
WGIFPGREIIQPTVVDVPSFMFWKDEAFALWIEQWGLYEEESPRTIIQYIHDNYFLVNLVDNDFPLDN
CLWQVVEDTLELLNRPTQNAARETEAP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_005948
RefSeq Size:	6099



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RefSeq ORF: 1968

Locus ID: 4524

UniProt ID: [P42898](#), [Q8IU67](#), [Q59GJ6](#)

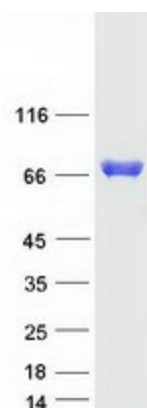
Cytogenetics: 1p36.22

Summary: The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency.[provided by RefSeq, Oct 2009]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Methane metabolism, One carbon pool by folate

Product images:



Coomassie blue staining of purified MTHFR protein (Cat# [TP308588]). The protein was produced from HEK293T cells transfected with MTHFR cDNA clone (Cat# [RC208588]) using MegaTran 2.0 (Cat# [TT210002]).