

Product datasheet for TP303461

SHMT1 (NM_004169) Human Recombinant Protein

Product data:

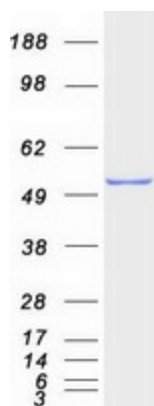
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203461 protein sequence Red =Cloning site Green =Tags(s)
	<p>MTMPVNGAHKDADLWSSHDKMLAQLKDSVVEVYNIKKESNRQRVGLELIASENFASRAVLEALGSCL N NKYSEGYPGQRYYGTEFIDELETLCQKRALQAYKLDPQCWGVNVQPYSGSPANFAVYTALVEPHGRIMG LDLPDGGHLTHGFMTDKKKISATSIFFESMPYKVPDGTGYINYDQLEENARLFHPKLIAGTSCYSRNLE YARLRKIADENGAYLMADMAHISGLVAAGVVPSPFEHCHWTTTTTHKTLRGCRAGMIFYRKGVKSVDPKT GKEILYNLESLINSAVFPGLQGGPHNHAIAGVAVALKQAMTLEFKVYQHQQVANCRALEALTELGYKIV TGGSDNHLILVDLRSKGTGGRAEKVLEACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQK VAHFHARGIELTLQIQSDTGVRATLKEFKERLAGDKYQAAVQALREEVESFASFFPLPGLPDF</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	52.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004160
Locus ID:	6470
UniProt ID:	P34896
RefSeq Size:	2553
Cytogenetics:	17p11.2
RefSeq ORF:	1449
Synonyms:	CSHMT; SHMT
Summary:	This gene encodes the cytosolic form of serine hydroxymethyltransferase, a pyridoxal phosphate-containing enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one-carbon units for synthesis of methionine, thymidylate, and purines in the cytoplasm. This gene is located within the Smith-Magenis syndrome region on chromosome 17. A pseudogene of this gene is located on the short arm of chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Protein Pathways:	Cyanoamino acid metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Methane metabolism, One carbon pool by folate

Product images:



Coomassie blue staining of purified SHMT1 protein (Cat# TP303461). The protein was produced from HEK293T cells transfected with SHMT1 cDNA clone (Cat# [RC203461]) using MegaTran 2.0 (Cat# [TT210002]).