

Product datasheet for TP303461L

OriGene Technologies, Inc.

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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, 1 mg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC203461 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MTMPVNGAHKDADLWSSHDKMLAQPLKDSDVEVYNIIKKESNRQRVGLELIASENFASRAVLEALGSCLN NKYSEGYPGQRYYGGTEFIDELETLCQKRALQAYKLDPQCWGVNVQPYSGSPANFAVYTALVEPHGRIMG LDLPDGGHLTHGFMTDKKKISATSIFFESMPYKVNPDTGYINYDQLEENARLFHPKLIIAGTSCYSRNLE YARLRKIADENGAYLMADMAHISGLVAAGVVPSPFEHCHVVTTTTHKTLRGCRAGMIFYRKGVKSVDPKT GKEILYNLESLINSAVFPGLQGGPHNHAIAGVAVALKQAMTLEFKVYQHQVVANCRALSEALTELGYKIV TGGSDNHLILVDLRSKGTDGGRAEKVLEACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQK VAHFIHRGIELTLQIQSDTGVRATLKEFKERLAGDKYQAAVQALREEVESFASFFPLPGLPDF

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

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

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

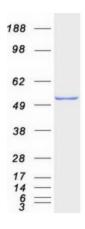
phosphate-containing enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one-carbon units for synthesis of methionine, thymidylate, and purines in the cytoplasm. This gene is located within the Smith-Magenis 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]).