

Recombinant Full Length Human SHMT1 Protein, Flag tagged

Cat. No. SHMT1-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1 with Flag tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	52.9 kDa
AASequence	MTMPVNGAHKDADLWSSHDKMLAQPLKDSDEVYNIKKESNRQRVGLELIASENF ASRAVLEALGSLNNKYSEGYPGQRYGGTEFIDELETLCQKRALQAYKLDPQCWG VNVQPYSGLSPANFAVYTALVEPHGRIMGLDLPDGGHLTHGFMTDKKKISATSIFFES MPYKVNPDGTGYINYDQLEENARLFHPKLIIAGTSCYSRNLEYARLRKIADENGAYLMA DMAHISGLVAAGVVPSPFEHCHVVTTHKTLRGCRAGMIFYRKGVKSVDPKTGKEI LYNLESLINSAVFPGLQGPHNHAAGVAVALKQAMTLEFKVYQHQQVANCRLSEA

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LTELGYKIVTGGSDNHLILVDLRSKGTGGRAEKVLEACSIACNKNTCPGDRSALRP
SGLRLGTPALTSRGLLEKDFQKVAHFIHRGIELTLQIQSDTGVRATLKEFKERLAGDK
YQAAVQALREEVESFASFFPLPGLPDFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Notes 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 centigrade. Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Concentration >0.05 µg/µL as determined by microplate BCA method

Shipping Dry Ice

GENE INFORMATION

Gene Name SHMT1 serine hydroxymethyltransferase 1 [Homo sapiens (human)]

Official Symbol SHMT1

Synonyms SHMT1; serine hydroxymethyltransferase 1; SHMT; CSHMT; serine hydroxymethyltransferase, cytosolic; cytoplasmic serine hydroxymethyltransferase; glycine hydroxymethyltransferase; serine hydroxymethyltransferase 1 (soluble); serine methylase; EC 2.1.2.1

Gene ID 6470

mRNA Refseq NM_004169

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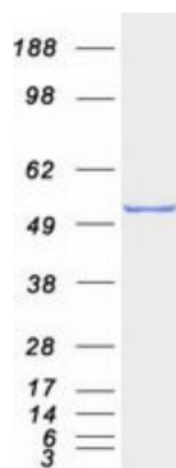
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Protein Refseq NP_004160

MIM 182144

UniProt ID P34896

SDS-PAGE



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