

Recombinant Human SHMT1 protein, GST-tagged

Cat. No. SHMT1-2661H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SHMT1 protein(134-483 aa), fused with N-terminal GST tag, was expressed in E. coli.
Species	Human
Source	E. coli
ProteinLength	134-483 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).
AASequence	PHGRIMGLDLPDGGHLTHGFMTDKKKISATSIFFESMPYKVNPDGTGYINYDQLEENA RLFHPKLIAGTSCYSRNLEYARLRKIADENGAYLMADMAHISGLVAAGVVPSPFEHC HVVTTHHTKTLRGCRAGMIFYRKGVKSVDPKTGKEILYNLESLINSAVFPGLQGPH NHAIGVAVALKQAMTLEFKVYQHQQVANCRALEALTELGKIVTGGSDNHLILVDL RSKGTDDGGRAEKVLEACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQ KVAHFIHRGIELTLQIQSDTGVRATLKEFKERLAGDKYQAAVQALREEVESFASLFPL PGLPDF
Purity	90%, by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

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

Official Symbol SHMT1

Synonyms SHMT1; serine hydroxymethyltransferase 1 (soluble); serine hydroxymethyltransferase, cytosolic; 14 kDa protein; CSHMT; cytoplasmic serine hydroxymethyltransferase; MGC15229; MGC24556; SHMT; serine methylase; glycine hydroxymethyltransferase;

mRNA Refseq NM_004169

Protein Refseq NP_004160

MIM 182144

UniProt ID P34896

Gene ID 6470

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SDS-PAGE



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