

Serine Hydroxymethyltransferase 1 Human Recombinant

Item Number	rAP-1945
Synonyms	Serine hydroxymethyltransferase 1 (soluble), CSHMT, Glycine hydroxymethyltransferase, Serine methylase, 14 kDa protein, cytoplasmic serine hydroxymethyltransferase, serine hydroxymethyltransferase cytosolic, EC 2.1.2.1.
Description	SHMT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 503 amino acids (1-483 a.a.) and having a molecular mass of 55.2kDa. SHMT1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P34896
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MTMPVNGAHK DADLWSSHDK MLAQLKDS VEVYNIKKK SNRQRVGLEL IASENFASRA VLEALGSLN NKYSEGYPGQ RYYGGTEFID ELETLCQKRA LQAYKLDPOC WGVNVQPYSG SPANFAVYTA LVEPHGRIMG LDLPDGGHLLT HGFMTDKKKI SATSIFFESM PYKVNPDGTY INYDQLEENA RLFHPKLIIA GTSCYSRNLE YARLRKIAD NGAYLMADMA HISGLVAAGV VPSPFEHCHV VTTTTHKTLR GCRAGMIFYR KGVKSVDPKT GKEILYNLES LINSVFPGL QGGPHNHAIA GVAVALQAM TLEFKVYQH VVANCRALE ALTELGYKIV TGGSDNHLIL VDLRSKGTG GRAEKVLEAC SIACNKNTCP GDRSALRPSG LRLGTPALTS RGLLEKDFQK VAH- FIHRGIE LTLQIQSDTG VRATLKEFKE RLAGDKYQAA VQALREEVES FASFFPLPGL PDF.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	SHMT1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM DTT and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**