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## 32-2809: SHMT1 Recombinant Protein

Alternative Name :  $Serine\ hydroxymethyltransferase\ 1\ (soluble), CSHMT, Glycine\ hydroxymethyltransferase, Serine$ 

methylase,14 kDa protein,cytoplasmic serine hydroxymethyltransferase,serine

hydroxymethyltransferase cytosolic,EC 2.1.2.1.

## **Description**

Source: Escherichia Coli. 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. SHMT1 is a member of the SHMT family. SHMT1 is the cellular form of serine hydroxymethyltransferase, a pyridoxal phosphate-containing enzyme which catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5 10-methylene tetrahydrofolate. In addition, SHMT1 specifically provides one-carbon units for thymidylate biosynthesis, reduces methylenetetrahydrofolate pools for S-adenosylmethionine (SAM) synthesis by synthesizing serine, sequesters 5-methyltetrahydrofolate and inhibits SAM synthesis.

## **Product Info**

Storage condition:

**Amount:** 20 μg

**Purification:** Greater than 95.0% as determined by SDS-PAGE.

Content: SHMT1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM

DTT and 10% glycerol.

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.

Amino Acid: MGSSHHHHHH SSGLVPRGSH MTMPVNGAHK DADLWSSHDK MLAQPLKDSD VEVYNIIKKE

SNRQRVGLEL IASENFASRA VLEALGSCLN NKYSEGYPGQ RYYGGTEFID ELETLCQKRA LQAYKLDPQC WGVNVQPYSG SPANFAVYTA LVEPHGRIMG LDLPDGGHLT HGFMTDKKKI SATSIFFESM PYKVNPDTGY INYDQLEENA RLFHPKLIIA GTSCYSRNLE YARLRKIADE NGAYLMADMA HISGLVAAGV VPSPFEHCHV VTTTTHKTLR GCRAGMIFYR KGVKSVDPKT GKEILYNLES LINSAVFPGL QGGPHNHAIA GVAVALKQAM TLEFKVYQHQ VVANCRALSE ALTELGYKIV TGGSDNHLIL VDLRSKGTDG GRAEKVLEAC SIACNKNTCP GDRSALRPSG LRLGTPALTS RGLLEKDFQK VAHFIHRGIE LTLQIQSDTG VRATLKEFKE RLAGDKYQAA

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