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SHMT1, 1-483aa, Human, His tag, E.coli

产品货号: TP03935

第三版

别名: Serine hydroxymethyltransferase 1, CSHMT, SHMT.

描述: Serine hydroxymethyltransferase 1, also known as SHMT1, belongs to the SHMT family. This protein is cellular 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. Also, SHMT1 preferentially supplies one-carbon units for thymidylate biosynthesis, depletes methylenetetrahydrofolate pools for S-adenosylmethionine (SAM) synthesis by synthesizing serine, sequesters 5-methyltetrahydrofolate and inhibits. Recombinant human SHMT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

分子量: 55.2 kDa (503aa)

序列:

MGSSHHHHHSSGLVPRGSHMTMPVNGAHKADLWSSHDKMLAQPLKDSDEVYNIKKESNRQRVGLIELIASENFAS
RAVLEALGSLNNKYSEGYPGQRYGGTEFIDELETLCQKRALQAYKLDPQCWGVNVQPYSGSPANFAVYTALVEPHGRI
MGLDLPDGGHLTHGFMTDKKISATSIFFESMPYKVNPDGTGYINYDQLEENARLFHPKLIAGTSCYSRNLEYARLRKIADE
NGAYLMADMAHISGLVAAGVVPSPFEHCHVTTTTTHKTLRGCRAGMIFYRKGVKSVDPKTGKEILYNLESLINSAVFPGL
QGGPHNHAIAGVAVALKQAMTLEFKVYQHQQVVANCRALSEALTELGKIVTGGSDNHLILVDLRSKGTGGRRAEKVLE
ACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQKVAHFHHRGIELTLQIQSDTGVRATLKEFKERLAGDKYQAA
VQALREEVESFASFFPLPLPDF

纯度: > 95% by HPLC

浓度: 1 mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 °C 保存 (1-2 周). 长期保存在 -20 °C 或者 -70 °C. 避免反复冻融.