

32-2876: TYMS Recombinant Protein

Alternative Name : TMS, EC 2.1.1.45, HST422, Thymidylate synthase, TSase, TS, TYMS, MGC88736.

Description

Source : Escherichia Coli. Thymidylate synthase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 333 amino acids (1-313 a.a.) and having a molecular mass of 37.8 kDa. The Thymidylate synthase fused to a 20 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques. Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate as a cofactor which maintains the dTMP (thymidine-5-prime monophosphate) pool vital for DNA replication and repair. Thymidylate synthase plays an important role as a cancer chemotherapeutic agent. Thymidylate synthase is the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and several folate analogs.

Product Info

Amount :	25 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The Thymidylate synthase solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.
Storage condition :	Thymidylate synthase although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MPVAGSELPR RPLPPAAQER DAEP RPPHGE LQYLGQIQHI LRCGVRKDDR TGTGTL SVFG MQARYSLRDE FPLLTTKRVF WKG VLEELLW FIKGSTNAKE LSSKG VKIWD ANGSRDFLDS LGFSTREEGD LGPVYGFQWR HFGEAYRDME SDYSGQGVDQ LQRVIDTIKT NPDDRRIIMC AWNPRDLPLM ALPPCHALCQ FYVNSELS C QLYQRSGDMG LGVPFNIASY ALLTYMIAHI TGLKPGDFIH TLGDAHIYLN HIEPLKIQ LQ REPRPFKLR ILRKVEKIDD FKAEDFQIEG YNPHTIKME MAV.

