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Tymidylate synthase, 1-313aa, Human, His tag, E.coli

产品货号: TP04363

第三版

别名:HST422, TMS, TS, dTMP synthase, EC 2.1.1.45, MGC88736, Thymidylate synthase, Thymidylate synthetase, Tsase, TYMS, TYMS protein, Tyms thymidylate synthetase,

描述:Thymidylate synthase is an intracellular enzyme critical for de novo synthesis of DNA. This function maintains the dTMP(thymidine-5-prime monophosphate) pool critical for DNA replication and repair. In cancer, expression of this protein is often elevated and becomes further elevated as a result of treatment with the most commonly used chemotherapeutic, 5-fluorouracil (5-FU). Resistance or lack of response to 5-FU is attributed to the elevation of thymidylate synthase activity. Recombinant human Thymidylate synthase 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 10% glycerol, 1mM DTT, 0.1 M NaCl.

分子量:37.8 kDa (333aa), confirmed by MALDI-TOF.

序列:

MGSSHHHHHHSSGLVPRGSHMPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGQIQHILRCGVRKDDRTGTGTLVSF
GMQARYSLRDEFLLTTKR VFWKGVLEELLWFIKGSTNAKELSSKGVKIWDANGSRDFLDSLGFSTREEGDLGPVYGFQW
RHFGAEYRDMESDYSQQGVDQLQRVIDTIKTNPDDRRIMCAWNPRDLPLMALPPCHALCQFYVNSELSCQLYQRSGD
MGLGVPFNIASYALLTYMIAHITGLKPGDFIHTLGDAHIYLNHIEPLKIQLQREPRFPKLRILRKVEKIDDFKAEDFQIEGYN
PHPTIKMEMAV

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.