

Recombinant Human TYMS, His-tagged

Cat. No. TYMS-30405TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-191 of Human Thymidylate Synthase with N terminal His tag; MWt 22kDa.
Species	Human
Source	E.coli
ProteinLength	1-191 a.a.
Description	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occurring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 97 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
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Sequences of amino acids	MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGQIQHI LRCGVRKDDRTGTGTL SVFGMQARYSLRDEFLLTTKR VFWKGVLEELLWFIKGSTNAKELSSKGVKIW DAN GSRD FLDSLGFSTREEGDLGPVYGFQWRHFGAEYRDMESDYS GQGVDQLQRVID TIKTNPDDRRRIIMCAWNPRDLPLMA
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GENE INFORMATION

Gene ID	TYMS thymidylate synthetase [Homo sapiens]
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Official Symbol	TYMS
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Synonyms	TYMS; thymidylate synthetase; TS; thymidylate synthase; HsT422; TMS; Tsase;
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