Datasheet for ABIN666924

# TYMS Protein (AA 1-313) (His tag)

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## 1 Image

## Overview

| | |
|---|---|
| Quantity: | 100 µg |
| Target: | TYMS |
| Protein Characteristics: | AA 1-313 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TYMS protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS) |

## Product Details

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|---|---|
| Characteristics: | Thymidylate synthase, 1-313aa, Human, His tag, E.coli |
| Purity: | > 95 % by SDS - PAGE |

## Target Details

| | |
|---|---|
| Target: | TYMS |
| Alternative Name: | Thymidylate synthase (TYMS Products) |
| Target Type: | Viral Protein |
| Background: | 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- |

## Target Details

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|---|---|
| | 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. Synonyms: HST422, TMS, TS, d TMP synthase, EC 2.1.1.45, MGC88736, Thymidylate synthase, Thymidylate synthetase, Tsase, TYMS, TYMS protein, Tyms thymidylate synthetase,. NCBI no.: NP_001062 |
| Molecular Weight: | 37.8 kDa (333aa), confirmed by MALDI-TOF. |
| Pathways: | Mitotic G1-G1/S Phases |

## Application Details

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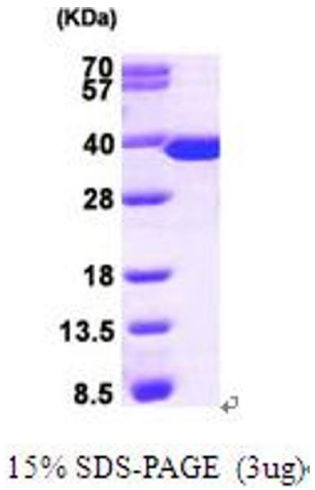
|---|---|
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Concentration: | 1 mg/ml (determined by Bradford assay) |
| Buffer: | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1 M NaCl. |
| Storage: | 4 °C |

## Images




**SDS-PAGE**

**Image 1.**