

Human Thymidylate Synthase (TYMS) ELISA Kit | TYMS elisa kit

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CATALOG #
AAA330333

REACTIVITY
Human

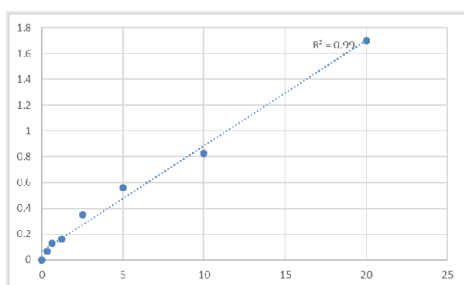
PRODUCT SYNONYMS

Thymidylate Synthase (TYMS); Human Thymidylate Synthase (TYMS) ELISA Kit; TYMS; HST422; MGC88736; TMS; TS; TSase; thymidylate synthase; TYMS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thymidylate synthase (TYMS) ELISA Kit has high sensitivity and excellent specificity for detection of Human TYMS. No significant cross-reactivity or interference between Human TYMS and analogues was observed.
Sequence Length	313
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Thymidylate synthase (TYMS) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TYMS elisa kit	Description: This Human Thymidylate synthase (TYMS) ELISA Kit employs a two-site sandwich ELISA to quantitate TYMS in samples. An antibody specific for TYMS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TYMS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TYMS is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TYMS bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Thymidylate synthetase (EC 2.1.1.45) is the enzyme used to generate thymidine monophosphate (dTMP), which is subsequently phosphorylated to thymidine triphosphate for use in DNA synthesis and repair. By means of reductive methylation, deoxyuridine monophosphate (dUMP) and N5,N10-methylene tetrahydrofolate are together used to form dTMP, yielding dihydrofolate as a secondary product. As an anti-cancer chemotherapy target, thymidylate synthetase can be inhibited by the thymidylate synthase inhibitors such as fluorinated pyrimidine fluorouracil, or certain folate analogues, including most notably raltitrexed (trade name Tomudex).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	136611
NCBI GeneID	7298
UniProt Accession #	P04818
NCBI Official Full Name	Thymidylate synthase
NCBI Official Synonym Full Names	thymidylate synthetase
NCBI Official Symbol	TYMS
NCBI Official Synonym Symbols	TS; TMS; HST422
NCBI Protein Information	thymidylate synthase
UniProt Protein Name	Thymidylate synthase
UniProt Gene Name	TYMS
UniProt Synonym Gene Names	TS; TS; TSase
UniProt Entry Name	TYSY_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.