Human Tryptophanyl-tRNA synthetase (WARS) ELISA Kit

Catalog No: #EK5845

Package Size: #EK5845-1 48T #EK5845-2 96T

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Description

Product Name	Human Tryptophanyl-tRNA synthetase (WARS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	GAMMA-2; IFI53; IFP53; interferon-induced protein 53|tryptophan tRNA ligase 1; cytoplasmic
Accession No.	P23381
Uniprot	P23381
GeneID	7453;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.62 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate WARS in samples. An antibody specific for WARS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyWARS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for WARS 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 WARS bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Tryptophanyl-tRNA synthetase, cytoplasmic is an enzyme that in humans is encoded by the WARS gene,Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution.

Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family.

Note: This product is for in vitro research use only