

# Human 6-pyruvoyl tetrahydrobiopterin synthase (PTS) ELISA Kit



Catalog No: #EK7946

Orders: order@signalwayantibody.com

Package Size: #EK7946-1 48T #EK7946-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human 6-pyruvoyl tetrahydrobiopterin synthase (PTS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ97081; PTPS; 6-pyruvoyl tetrahydrobiopterin synthase PTP synthase
Accession No.	Q03393
Uniprot	Q03393
GeneID	5805;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

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 PTS in samples. An antibody specific for PTS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTS 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 PTS bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**In enzymology, a 6-pyruvoyltetrahydropterin synthase (PTPS) (EC 4.2.3.12) is an enzyme that catalyzes the following chemical reaction:

$$7,8\text{-Dihydroneopterin triphosphate} \rightarrow 6\text{-pyruvoyltetrahydropterin} + \text{triphosphate}$$

Hence, this enzyme has one substrate, 7,8-Dihydroneopterin triphosphate, and two products, 6-pyruvoyltetrahydropterin and triphosphate.

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Note: This product is for in vitro research use only