Human Plasma kallikrein (KLKB1) ELISA Kit

Catalog No: #EK10190

Package Size: #EK10190-1 48T #EK10190-2 96T

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Description

Product Name	Human Plasma kallikrein (KLKB1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KLK3; PPK; Fletcher factor|kininogenin|plasma kallikrein B1|plasma kallikrein heavy chain|plasma kallikrein light chain
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:0.2-12.5 ng/mL

Sensitivity:0.07 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 KLKB1 in samples. An antibody specific for KLKB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLKB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLKB1 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 KLKB1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Human prostate-specific antigen (APS) is a kallikrein-like protease present in seminal plasma. It is a single-chain glycoprotein with a molecular mass of about 33 kD that may function normally in the liquefaction of seminal coagulum. Radioimmunoassay of serum levels of this antigen (called PSA in the clinical setting) is useful in the diagnosis and monitoring of prostatic carcinoma. The full-length KLK3 protein contains 261 amino acids. It has a putative signal peptide, followed by a short activating peptide and the protease domain, which includes the catalytic triad of his65, asp120, and ser213. RT-PCR of 35 adult and fetal tissues detected highest expression in prostate. Expression was weak in colon, mammary gland, and parotid, and little to no expression was detected in other tissues examined.

Note: This product is for in vitro research use only