

Human Heparin cofactor II (HCII) ELISA Kit

Catalog No: #EK7374



Package Size: #EK7374-1 48T #EK7374-2 96T

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Description

Product Name	Human Heparin cofactor II (HCII) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	D22S673; HC2; HCF2; HCII; HLS2; LS2; OTTHUMP0000198451 heparin cofactor II userpin 2 serine (or cysteine) proteinase inhibitor; clade D (heparin cofactor); member 1
Accession No.	P05546
Uniprot	P05546
GeneID	3053;
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:0.71 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 SERPIND1 in samples. An antibody specific for SERPIND1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySERPIND1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPIND1 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 SERPIND1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Heparin cofactor II, a protein encoded by the SERPIND1 gene, is a coagulation factor that inhibits IIa, and is a cofactor for heparin and dermatan sulfate ("minor antithrombin").

The product encoded by this gene is a serine proteinase inhibitor which rapidly inhibits thrombin in the presence of dermatan sulfate or heparin. The gene contains five exons and four introns.

This protein shares homology with antithrombin III and other members of the alpha 1-antitrypsin superfamily. Mutations in this gene are associated with heparin cofactor II deficiency. Heparin Cofactor II deficiency can lead to increased thrombin generation and a hypercoagulable state.

Note: This product is for in vitro research use only