Human Complement 1 inhibitor (C1INH) ELISA Kit

Catalog No: #EK12321

Package Size: #EK12321-1 48T #EK12321-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Complement 1 inhibitor (C1INH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	SERPING1; C1IN; C1-INH; C1NH; HAE1; HAE2; Serpin Peptidase Inhibitor Clade G Member 1; Angioedema Hereditary; C1 Inhibitor; C1 Esterase Inhibitor
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:0.312-20 ng/mL

Sensitivity:0.151 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 C1INH in samples. An antibody specific for C1INH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyC1INH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for C1INH 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 C1INH bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:C1-INH?is a critically important protein that controls activation of multiple plasma mediator pathways. This protein, a member of the serine protease inhibitor (serpin) group, originally was described as an inhibitor of C1. It binds stoichiometrically to the active sites on both C1r and C1s to form a complex C1-INH-C1r-C1s-C1-INH and thus inhibits activated C1. In addition, C1-INH has been reported to remove the intact C1qrs complex from an activating surface and to inhibit autoactivation of C1. C1-INH is a known inhibitor of kinin generating (kallikrein), fibrinolytic (plasmin), and contact activation (intrinsic) pathway of the coagulation cascade. Recently, it has been shown to be an inhibitor of the mannan-binding lectin pathway of complement activation, inhibiting mannan-binding lectin-associated serine proteases (MASPs) in that pathway.

Note: This product is for in vitro research use only