

Human Protease, Serine 1 (PRSS1) ELISA Kit

Catalog No: #EK8110



Package Size: #EK8110-1 48T #EK8110-2 96T

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Description

Product Name	Human Protease, Serine 1 (PRSS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC120175; MGC149362; TRP1; TRY1; TRY4; TRYP1; cationic trypsinogen digestive zymogen nonfunctional trypsin 1 protease; serine; 1 serine protease 1 trypsin I trypsinogen 1 trypsinogen A
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:15.6-1000 pg/mL

Sensitivity:6.8 pg/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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate PRSS1 in samples. An antibody specific for PRSS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRSS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRSS1 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 PRSS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Trypsin-1 is a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7.

Normally, cationic trypsinogen represents approximately two-thirds of total trypsinogen, while anionic trypsinogen makes up approximately one-third. Mesotrypsinogen is a minor species, accounting for less than 5% of trypsinogens or 0.5% of pancreatic juice proteins.

Note: This product is for in vitro research use only