

Rat Mast Cell Tryptase (MCT) ELISA Kit

Catalog No: #EK6022



Package Size: #EK6022-1 48T #EK6022-2 96T

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Description

Product Name	Rat Mast Cell Tryptase (MCT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	TPS1; TPS2; TPSB1; mast cell alpha II tryptase mast cell beta I tryptase tryptase alpha II tryptase beta 1 tryptase beta I tryptase-I tryptase-III
Accession No.	P27435
Uniprot	P27435
GeneID	54271;
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:0.156-10 ng/mL

Sensitivity:0.055 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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate TPSAB1 in samples. An antibody specific for TPSAB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPSAB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPSAB1 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 TPSAB1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. TPSb2 is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, beta II and beta III. Beta tryptases appear to be the main isoenzymes expressed in mast cells, whereas in basophils, alpha-tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.

Note: This product is for in vitro research use only