

Rat Leukotriene B4 (LT-B4) ELISA Kit

Catalog No: #EK10019



Package Size: #EK10019-1 48T #EK10019-2 96T

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Description

Product Name	Rat Leukotriene B4 (LT-B4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
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:246.9-20000 pg/mL

Sensitivity:89.3 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 LT-B4 in samples. An antibody specific for LT-B4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLT-B4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LT-B4 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 LT-B4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Leukotriene B4 is a leukotriene involved in inflammation. It is produced from leukocytes in response to inflammatory mediators and is able to induce the adhesion and activation of leukocytes on the endothelium, allowing them to bind to and cross it into the tissue. In neutrophils, it is also a potent chemoattractant, and is able to induce the formation of reactive oxygen species and the release of lysosome enzymes by these cells.

Leukotriene B4 is a potent pro-inflammatory molecule that belongs to a family of eicosanoid lipid mediators. It is synthesized from arachidonic acid that is generated from nuclear membrane phospholipid. In general, and upon cell activation, phospholipase A2 is directed to the nuclear membrane. Here, it generates arachidonic acid that is bound by one 18 kDa membrane-bound protein termed Five-Lipoxygenase Activating Protein (FLAP).

Note: This product is for in vitro research use only