

Hamster Lipoxin A4 (LXA4) ELISA Kit

Catalog No: #EK10003



Package Size: #EK10003-1 48T #EK10003-2 96T

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Description

Product Name	Hamster Lipoxin A4 (LXA4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Hamster (Mesocricetus; Cricetulus)
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:493.8-40000 pg/mL

Sensitivity:175.4 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 LXA4 in samples. An antibody specific for LXA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLXA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LXA4 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 LXA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Lipoxins are a series of anti-inflammatory mediators. Lipoxins are short lived endogenously produced nonclassic eicosanoids whose appearance in inflammation signals the resolution of inflammation. They are abbreviated as LX, an acronym for lipoxigenase (LO) interaction products. At present two lipoxins have been identified; lipoxin A4 () and lipoxin B4 (LXB4).Lipoxins, as well as certain peptides, are high affinity ligands for the lipoxin A4 receptor (LXA4R), which was first identified based on sequence homology as the formyl peptide receptor like receptor (FPRL1). Lipoxin signaling through the LXA4R inhibits chemotaxis, transmigration, superoxide generation and NF-kappa B activation. Similarly to the leukotrienes, LXA4 will form the cysteinyl-lipoxins LXC4, LXD4 and LXE4. At subnanomolar concentrations, LXA4 and LXB4 inhibit leukotriene-stimulated interactions of human neutrophils and endothelial cells.

Note: This product is for in vitro research use only