

Cat Interleukin-8 (IL-8) ELISA Kit

Catalog No: #EK11993

Package Size: #EK11993-1 48T #EK11993-2 96T

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Description

Product Name	Cat Interleukin-8 (IL-8) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Cat (Felis catus,Feline)
Other Names	CXCL8; GCP-1; GCP1; LECT; LUCT; LYNAF; MDNCF; MONAP; NAF; NAP-1; NAP1; T cell chemotactic factor[beta-thromboglobulin-like protein]chemokine (C-X-C motif) ligand 8[emotakin]granulocyte chemotactic
Accession No.	Q9XSX5
Uniprot	Q9XSX5
GeneID	493836;
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:Request Information

Sensitivity:Request Information

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 IL8 in samples. An antibody specific for IL8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyIL8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for IL8 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 IL8 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Interleukin 8 (IL-8), a member of the neutrophil-specific CXC subfamily of chemokines, is a potent neutrophil chemotactic and activating factor. It is a primary inflammatory cytokine produced by many cells in response to proinflammatory stimuli such as IL-1, TNF, LPS and viruses. Its function is, in part, to attract neutrophils to the site of inflammation and to activate them. The IL-8 cDNA sequence predicts a protein of 99 amino acids. Removal of a 22-residue signal peptide generates a mature protein of 77 amino acids (~ 8 kDa). Further proteolysis of the N-terminal end leads to a variant form with 72 amino acids; full activation of IL-8 may require cleavage to the 72 amino acid form. IL-8 can form non-covalent dimers in solution, especially at high concentrations, but dimerization is not necessary for biological activity.

Note: This product is for in vitro research use only