

Human IL-5/IL5/Interleukin 5 ELISA Kit | IL-5/IL5 elisa kit

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CATALOG #
AAA258457

REACTIVITY
Human

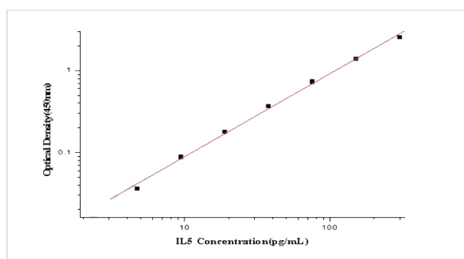
PRODUCT SYNONYMS

IL-5/IL5/Interleukin 5; Human IL-5/IL5/Interleukin 5 ELISA Kit; IL-5 ELISA Kit; Human; interleukin 5; EDF ELISA Kit; Interleukin 5 ELISA Kit; TRF ELISA Kit; IL-5/IL5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay recognizes both recombinant and natural Human IL5. The factors listed below were prepared at 50 ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.
Assay Type	Quantitative Sandwich
Sensitivity	< 2.5 pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay). Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-assay Precision (Precision between assays). Three samples of known concentration were tested in five separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-5/IL5 elisa kit	Background: Interleukin 5 (IL-5) is a member of the interleukin family with length of 115 amino acids. Interleukins are a group of cytokines (secreted proteins / signaling molecules) that were first seen to be expressed by white blood cells (leukocytes) and has been found in a wide variety of body cells. Interleukin 5 or IL-5 is produced by T helper-2 cells and mast cells. It helps to stimulate B cell growth and increase immunoglobulin secretion and is considered as a key mediator in eosinophil activation. Interleukin 5 (IL-5) has long been associated with several allergic diseases, including allergic rhinitis and asthma. Growth in the number of circulating, airway tissue, and induced sputum eosinophils have been observed in patients with these diseases. IL-5 also had something with the terminally differentiated granulocyte eosinophils. IL-5 was originally found as an eosinophil colony stimulating factor. It has been proved to be a major regulator of eosinophil accumulation in tissues, and can modulate eosinophil behavior at every stage from maturation to survival. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for Human IL-5/IL5/Interleukin 5 has been pre-coated onto well plate strips. Standards and samples are added to the wells and Human IL-5/IL5/Interleukin 5 present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-Human IL-5/IL5/Interleukin 5 antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of Human IL-5/IL5/Interleukin 5 bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: For the quantitative determination of Human IL-5/IL5/Interleukin 5 concentration in cell culture supernates.
References	Milburn MV, et al. (1993) A novel dimer configuration revealed by the crystal structure at 2.4 Å resolution of human interleukin-5. <i>Nature</i>. 363(6425): 172-176. Lee JS, et al. (1989) The IL-4 and IL-5 genes are closely linked and are part of a cytokine gene cluster on mouse chromosome 11. <i>Somat Cell Mol Genet</i>. 15(2): 143-152. Woodcock JM, et al. (1994) Three residues in the common beta chain of the human GM-CSF, IL-3 and IL-5 receptors are essential for GM-CSF and IL-5 but not IL-3 high affinity binding and interact with Glu21 of GM-CSF. <i>EMBO J</i>. 13 (21): 5176-85.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.