

Human IL-5 ELISA Kit | IL5 elisa kit

Human IL-5 PicoKine ELISA Kit

CATALOG #
AAA45245

REACTIVITY
Human

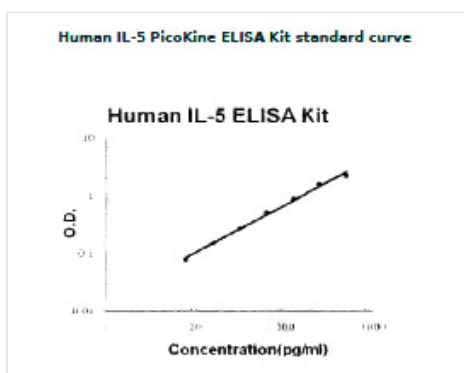
PRODUCT SYNONYMS

IL-5; Human IL-5 PicoKine ELISA Kit; Interleukin-5; interleukin 5; B cell differentiation factor I; B-cell differentiation factor I; Colony stimulating factor eosinophil; EDF; Eosinophil differentiation factor; IL 5; IL5; IL5_HUMAN; Interleukin 5; Interleukin 5 (colony stimulating factor eosinophil); Interleukin5; T cell replacing factor; T-cell replacing factor; TRF; IL5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL5
Sequence Length	134
Samples	Cell culture supernatants, serum, plasma (heparin, edta) and urine
Detection Range	7.8pg/ml-500pg/ml
Sensitivity	<2pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL5 elisa kit	Principle of the Assay: The Picokine™ Human IL5 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human IL5 with a 96-well strip plate that is pre-coated with antibody specific for IL5. The detection antibody is a biotinylated antibody specific for IL5. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human IL5 with immunogen: Expression system for standard: NSO; Immunogen sequence: I20-S134. The kit is analytically validated with ready-to-use reagents. To measure Human IL5, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The density of the yellow product is linearly proportional to Human IL5 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human IL5 in the sample. Background/Introduction: Interleukin-5 (IL-5) is also known as eosinophil differentiation factor (EDF). IL-5 is a potential candidate gene in the pathogenesis of asthma, as it is the main cytokine controlling eosinophil activity and eosinophils are pivotal in the development of airway inflammation. The predicted amino acid sequence of 134 amino acids is identical with that recently reported for human interleukin-5 but shows no significant homology with other known hemopoietic growth regulators. IL-5 is a lineage-specific hematopoietic growth factor that stimulates the production of eosinophils and eosinophil colonies from normal human bone marrow cells. IL-5 gene to human chromosome 5 at bands q23-31. Human and mouse of IL-5 share 70% amino acid sequence homology.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	124341
NCBI GeneID	3567
UniProt Accession #	P05113; Q13840
Molecular Weight	15,238 Da
NCBI Official Full Name	Interleukin-5
NCBI Official Synonym Full Names	interleukin 5
NCBI Official Symbol	IL5
NCBI Official Synonym Symbols	EDF; TRF; IL-5
NCBI Protein Information	interleukin-5; T-cell replacing factor; B-cell differentiation factor I; eosinophil differentiation factor; colony-stimulating factor, eosinophil
UniProt Protein Name	Interleukin-5
UniProt Gene Name	IL5
UniProt Synonym Gene Names	IL-5; TRF
UniProt Entry Name	IL5_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/il5-human-elisa-kits/il-5/45245>