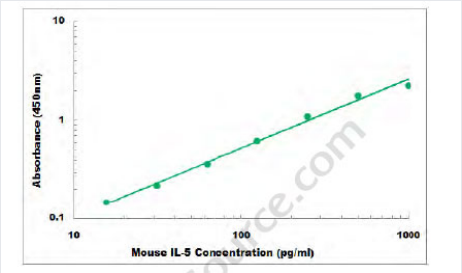
Il-5 (IL5) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	IL-5 (IL5), ELISA Kit
Full Product Name	Mouse IL-5 ELISA Kit
Product Gene Name	IL5 elisa kit
Product Synonym Names	Interleukin-5; IL-5; B-cell differentiation factor I; Eosinophil differentiation factor; T-cell replacing factor; TRF
Species Reactivity	Mouse
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates.
Sensitivity	7 pg/ml.
Specificity	The Mouse IL-5 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse IL-5 proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	15,410 Da
3D Structure	ModBase 3D Structure for P04401
Applications Tested/Suitable for IL5 elisa kit	Sandwich ELISA (EIA)
Related Product Information for IL5 elisa kit	Principle of the Assay||The Mouse IL-5 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IL-5 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Mouse IL-5 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL-5 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse IL-5 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL-5 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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.
Other Notes	Small volumes of IL5 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL5 purchase	MBS8244652 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-5 (IL5) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL5. The ELISA analytical biochemical technique of the MBS8244652 kit is based on IL5 antibody-IL5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL5. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve of IL5 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL5. It may not necessarily be applicable to this product.

NCBI GI #	124342
NCBI GeneID	16191
NCBI Accession #	P04401.1
UniProt Primary Accession #	P04401
UniProt Related Accession #	P04401
NCBI Official Full Name	Interleukin-5
NCBI Official Synonym Full Names	interleukin 5
NCBI Official Symbol	Il5
NCBI Official Synonym Symbols	Il-5
UniProt Protein Name	Interleukin-5
UniProt Synonym Protein Names	B-cell growth factor II; BCGF-II; Cytotoxic T-lymphocyte inducer; Eosinophil differentiation factor; T-cell replacing factor; TRF
Protein Family	Interleukin
UniProt Gene Name	Il5
UniProt Synonym Gene Names	Il-5; IL-5; BCGF-II; TRF
UniProt Entry Name	IL5_MOUSE
NCBI Protein Information	interleukin-5
UniProt Comments for IL5	IL5: Factor that induces terminal differentiation of late- developing B-cells to immunoglobulin secreting cells. Belongs to the IL-5 family. Protein type: Secreted; Secreted, signal peptide; Cytokine Cellular Component: extracellular region; extracellular space Molecular Function: cytokine activity; growth factor activity; interleukin-5 receptor binding Biological Process: cytokine and chemokine mediated signaling pathway; immune response; inflammatory response; positive regulation of B cell proliferation; positive regulation of cell proliferation; positive regulation of eosinophil differentiation; positive regulation of immunoglobulin secretion; positive regulation of JAK-STAT cascade; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of transcription factor activity; positive regulation of transcription, DNA-dependent
Research Articles on IL5	**1.** E. granulosus infection remarkably reduces the severity of OVA-induced airway inflammation likely through enhancing IL-10 and down-regulation of IL-5 and IL-17A.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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