Interleukin-2 (IL2) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Interleukin-2 (Il2), ELISA Kit
Full Product Name	Mouse Interleukin-2 ELISA Kit
Product Gene Name	Il2 elisa kit
Product Synonym Names	Interleukin-2; IL-2; T-cell growth factor; TCGF; Il2; Il-2
Species Reactivity	Mouse
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	31.2-2000 pg/mL
Preparation and Storage	Store at 4 degree C
Molecular Weight	19,400 Da
3D Structure	ModBase 3D Structure for P04351
Assay Time	3-5h
Sample Volume	100T
Detection Wavelength	450 nm
Related Product Information for Il2 elisa kit	MBS9425071 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin-2 (Il2) 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 Il2. The ELISA analytical biochemical technique of the MBS9425071 kit is based on Il2 antibody-Il2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Il2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Il2. 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(%).
Other Notes	Small volumes of Il2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Il2. It may not necessarily be applicable to this product.

NCBI GI #	7110653
NCBI GeneID	16183
NCBI Accession #	NP_032392.1
UniProt Primary Accession #	P04351
UniProt Secondary Accession #	P97945; Q791T3
UniProt Related Accession #	P04351
GenBank Nucleotide #	NM_008366.3
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2

NCBI Official Symbol	Il2
NCBI Official Synonym Symbols	Il-2
UniProt Protein Name	Interleukin-2
UniProt Synonym Protein Names	T-cell growth factor; TCGF
Protein Family	Interleukin
UniProt Gene Name	Il2
UniProt Synonym Gene Names	Il-2; IL-2; TCGF
NCBI Protein Information	interleukin-2
UniProt Comments for Il2	IL2: Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine- activated killer cells, natural killer cells, and glioma cells. A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17. Belongs to the IL-2 family. Protein type: Cytokine; Oncoprotein; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3 B|3 18.3 cM Cellular Component: extracellular space Molecular Function: carbohydrate binding; cytokine activity; glycosphingolipid binding; interleukin-2 receptor binding; kappa-type opioid receptor binding Biological Process: elevation of cytosolic calcium ion concentration; G-protein coupled receptor protein signaling pathway; leukocyte activation during immune response; negative regulation of B cell apoptosis; negative regulation of heart contraction; negative regulation of inflammatory response; negative regulation of lymphocyte proliferation; negative regulation of protein amino acid phosphorylation; positive regulation of activated T cell proliferation; positive regulation of B cell proliferation; positive regulation of immunoglobulin secretion; positive regulation of interferon-gamma production; positive regulation of interleukin-17 production; positive regulation of isotype switching to IgG isotypes; positive regulation of protein amino acid phosphorylation; positive regulation of regulatory T cell differentiation; positive regulation of T cell differentiation; positive regulation of T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of tyrosine phosphorylation of STAT protein; protein kinase C activation; regulation of T cell homeostatic proliferation; response to ethanol
Research Articles on Il2	**1.** Mecamylamine, a nAChR inhibitor, suppressed not only these [Ca(2+)]i transients, but also IL-2 release and T cell proliferation
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