

Rat IL-10 ELISA Kit | IL10 elisa kit

Rat IL-10 PicoKine ELISA Kit

CATALOG #
AAA45355

REACTIVITY
Rat

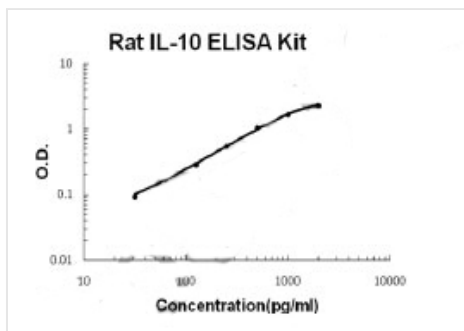
PRODUCT SYNONYMS

IL-10; Rat IL-10 PicoKine ELISA Kit; Interleukin-10; interleukin 10; CSIF; Cytokine synthesis inhibitory factor; GVHDS; IL 10; IL10; IL10_HUMAN; IL10A; Interleukin 10; Interleukin10; MGC126450; MGC126451; T cell growth inhibitory factor; TGIF; IL10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat IL-10
Sequence Length	178
Samples	Cell Culture Supernates, Cell Lysates, Serum And Plasma (Heparin, Edta)
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 accross 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 IL10 elisa kit	Principle of the Assay: The Picokine Rat Igf1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Igf1 with a 96-well strip plate that is pre-coated with antibody specific for Igf1. The detection antibody is a biotinylated antibody specific for Igf1. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat specific for IGF-1. The kit contains recombinant Rat Igf1 with immunogen: Expression system for standard: E.coli; Immunogen sequence: G49-A118. The kit is analytically validated with ready to use reagents. To measure Rat Igf1, 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 substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Rat Igf1 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 Rat Igf1 in the sample!!Background/Introduction: Insulin-like growth factor 1(IGF-1) that was once called somatomedin C, is a polypeptide protein hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. Human IGF1 is a single chain 70-amino acid polypeptide cross-linked by 3 disulfide bridges, with a calculated molecular mass of 7.6 kD. The IGF1 gene, mapped on 12q22-q24.1, contains 5 exons. Exons 1-4 encode the 195-amino acid precursor(IGF1B), and exons 1, 2, 3, and 5 encode the 153-residue peptide(IGF1A). The structure of IGF1 resembles that of IGF2. And the IGF1 and IGF2 genes have complex structures with multiple promoters. The expression of both genes is regulated at the levels of transcription, RNA processing, and translation. IGF-1 is produced primarily by the liver as an endocrine hormone as well as in target tissues in a paracrine/autocrine fashion. Moreover, approximately 98% of IGF-1 is always bound to one of 6 binding proteins(IGF-BP). Furthermore, IGF-1 is one of the most potent natural activators of the AKT signaling pathway, a stimulator of cell growth and multiplication and a potent inhibitor of programmed cell death.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	266338
NCBI GeneID	25325
UniProt Accession #	P29456; Q63263
Molecular Weight	20,426 Da
NCBI Official Full Name	Interleukin-10
NCBI Official Synonym Full Names	interleukin 10
NCBI Official Symbol	IL10
NCBI Official Synonym Symbols	IL10X
NCBI Protein Information	interleukin-10; CSIF; IL-10; cytokine synthesis inhibitory factor
UniProt Protein Name	Interleukin-10
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; IL-10; CSIF
UniProt Entry Name	IL10_RAT

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.