

## Human IL-2 ELISA Kit | IL2 elisa kit

Human IL-2 PicoKine ELISA Kit

CATALOG #  
**AAA11558**

REACTIVITY  
**Human**

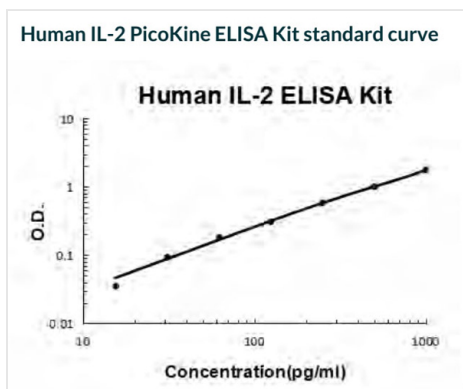
### PRODUCT SYNONYMS

IL-2; Human IL-2 PicoKine ELISA Kit; Interleukin-2; interleukin 2; Aldesleukin; IL 2; IL2; IL2\_HUMAN; Interleukin 2; Interleukin2; Involved in regulation of T cell clonal expansion; Lymphokine; T cell growth factor; T-cell growth factor; TCGF; IL2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                 |
| Specificity             | Natural and recombinant Human IL2                                                                                                                     |
| Sequence Length         | 153                                                                                                                                                   |
| Samples                 | Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)                                                                                  |
| Detection Range         | 15.6 pg/ml - 1,000 pg/ml                                                                                                                              |
| Sensitivity             | <1 pg/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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Related Product Information for IL2 elisa kit | <p>Background: Interleukin-2 (IL2), formerly referred to as T-cell growth factor, is a powerfully immunoregulatory lymphokine that is produced by lectin- or antigenactivated T cells. It is produced not only by mature T lymphocytes on stimulation but also constitutively by certain T-cell lymphoma cell lines. The lymphokine interleukin-2 (IL-2) is responsible for autocrine cell cycle progression and regulation of immune responses. IL-2 expression in mature thymocytes and T cells has been found to be tightly controlled by monoallelic expression. IL-2 can act as a growth hormone for both B and T lymphocytes. The human gene for interleukin 2 (IL2) is assigned to chromosome 4. Human IL-2 is a 15.5KDa glycoprotein, consisting of 153 amino acids in precursor form and 133 amino acids in mature form.</p> <p>Principle of the Assay: The Picokine™ Human IL2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human IL2 with a 96-well strip plate that is pre-coated with antibody specific for IL2. The detection antibody is a biotinylated antibody specific for IL2. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit includes Human IL2 protein as standards. To measure Human IL2, 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 absorbance of the yellow product at 450nm is linearly proportional to Human IL2 in the sample. Read the absorbance 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 IL2 in the sample.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 45593462                                                                                            |
| NCBI GeneID                      | 3558                                                                                                |
| UniProt Accession #              | P60568; P01585                                                                                      |
| Molecular Weight                 | 17,628 Da                                                                                           |
| NCBI Official Full Name          | Interleukin-2                                                                                       |
| NCBI Official Synonym Full Names | interleukin 2                                                                                       |
| NCBI Official Symbol             | IL2                                                                                                 |
| NCBI Official Synonym Symbols    | IL-2; TCGF; lymphokine                                                                              |
| NCBI Protein Information         | interleukin-2; aldesleukin; T cell growth factor; involved in regulation of T-cell clonal expansion |
| UniProt Protein Name             | Interleukin-2                                                                                       |
| UniProt Gene Name                | IL2                                                                                                 |
| UniProt Synonym Gene Names       | IL-2; TCGF                                                                                          |
| UniProt Entry Name               | IL2_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.