IL-2
Interleukin 2, T-cell growth factor
human, recombinant, E. coli

**Description:**
IL-2 is only produced by activated T-cells, especially the CD4+ T-helper cell population, although CD8+ cytotoxic cells can be stimulated in vitro to produce IL-2. It is a potent immunomodulator, and has an important role in both the activation and maintenance of an immune response and in lymphocyte development. Interleukin-2 serves to activate numerous key cells in the immune system, including helper T cells, cytotoxic T cells, B lymphocytes, natural killer cells, tumor infiltrating lymphocytes and macrophage-monocyte cells. Recombinant human IL-2 produced in E. coli is a single, non-glycosylated form of human IL-2 polypeptide chain containing 134 amino acids and having a molecular mass of 15.52 kDa. Our IL-2 has an Ser substitute for Cysteine at position 126.

**Amino Acid Sequence:**
The sequence of the first five N-terminal amino acids was found to be Met-Ala-Pro-Thr-Ser.

**Activity:**
ED50: < 0.0645 ng/ml, corresponding to a specific activity of 1.7 x 10^7 IU/mg, determined by the dose-dependent stimulation of murine CTLL-2 cells.

**Selected References:**

**Cat. No.** | **Amount**
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PR-461 | 50 µg

*For in vitro use only!*

**Shipping:** shipped at ambient temperature

**Storage Conditions:** store at -20 °C

**Additional Storage Conditions:** avoid freeze/thaw cycles

**Molecular Weight:** 15.5 kDa

**Accession number:** P60568

**Purity:** > 95 % (SDS-PAGE, RP-HPLC)

**Form:** lyophilised (from sodium phosphate buffer pH 7.5)

**Solubility:** It is recommended to reconstitute the lyophilised IL-2 in 20 mM acetic acid not less than 100µg/ml, which can then be further diluted to other aqueous solutions. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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