**Interleukin-2 (IL-2)**
Human, Recombinant
Expressed in *E. coli*

**Product Number** I 2644

**Product Description**
Recombinant Human Interleukin-2 is a 15.5 kDa protein containing 134 amino acid residues including one intrachain disulfide bond.

Interleukin-2 (IL-2), also known as T Cell Growth Factor (TCGF) and aldesleukin, is an immunomodulatory lymphokine produced by T cells in response to antigenic or mitogenic stimulation. IL-2/IL-2 receptor signaling is required for T cell proliferation and other functions, which are essential for immune response. Interleukin-2 promotes growth and differentiation of B cells, NK cells, lymphokine-activated killer (LAK) cells, monocytes, macrophages, and oligodendrocytes. It has been shown to effect the activation and proliferation of NK cells, induce γ-interferon and B cell growth factor secretion, and modulate the expression of the IL-2 receptor (IL-2R). Interleukin-2 has been isolated from a number of cell types and has been reproduced by recombinant DNA technology.

**Reagent**
Recombinant Human Interleukin-2 is supplied as lyophilized with no additives. It is sterile filtered through a 0.2 µm filter.

**Storage/Stability**
Prior to reconstitution, store the lyophilized protein at −20 °C. It is stable for up to a few weeks at room temperature, but is best stored at −20 °C. For extended storage, after reconstitution, store in working aliquots at −20 °C. Repeated freezing and thawing in not recommended.

**Preparation Instructions**
Reconstitute the contents of the vial using 100 mM acetic acid to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 2-8 °C for up to 1 week. For extended storage, freeze in working aliquots. It may be advisable to centrifuge the vial prior to reconstitution.

**Product Profile**
The biological activity of Recombinant Human Interleukin-2 is measured by the dose-dependent stimulation of the proliferation of the IL-2 dependent mouse cytotoxic T-cell line, CTLL-2. The EC50 is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell based bioassay.

**References**

KAA 03/04