

rHuIL-2

Recombinant Human Interleukin-2

Product	Cat#	Package size
Recombinant Human Interleukin-2	C6022.0010	10µg
Recombinant Human Interleukin-2	C6022.0050	50µg
Recombinant Human Interleukin-2	C6022.1000	1mg

Synonyms: T-cell growth factor (TCGF), Lymphokine, IL-2.

Product description

IL-2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL-4) and interleukin 7 (IL-7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

Recombinant Human IL-2 produced in *E. coli* is a single, non-glycosylated polypeptide of 133 amino acids and a molecular weight of 15.4 kDa.

Source: *Escherichia coli*

Biological activity

The ED50 as determined by the dose-dependent stimulation of murine CTLL cells is <0.1ng/mL, corresponding to a Specific Activity of 10E7 IU/mg.

Purity: Greater than 97% by SDS-PAGE and HPLC analysis.

Amino acid sequence

APTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS
ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT

Formulation: The protein was lyophilized from a 0.2µm filtered concentrated solution (1.0mg/mL) in PBS, pH5.0.

Solubility / Reconstitution

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute the lyophilised rHuIL-2 in sterile water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Stability

Lyophilised rHuIL-2 although stable at room temperature for 3 weeks, should be stored desiccated at -20°C. Reconstituted rHuIL-2 is best stored refrigerated at +2°C to +8°C between 2-7 days and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (e.g., 0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.