

## Datasheet

# Interleukin 2

## Human Recombinant

Product	Description	Catalogue-No.	Size
IL-2	Interleukin-2, human recombinant	CB-2130201 CB-2130203 CB-2130202	5 µg 10 µg 50 µg

### Product description

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

Interleukin 2 (IL-2) is a powerful immune-regulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK-cells, lymphokine activated killer cells, monocytes, macrophages, and oligodendrocytes. Recombinant human IL-2 produced in *E. coli* is a 15.5 kDa protein, containing 134 amino acid residues including one intra-chain disulfide bond.

### Solubility and storage conditions

The lyophilized IL-2 should be reconstituted in sterile distilled water or 20 mM acetic acid to a concentration not less than 100 µg/ml. This solution can be diluted into other buffered aqueous solutions or stored at -20 °C for future use. The lyophilized IL-2, though stable at room temperature, is best stored desiccated below 0 °C. Reconstituted IL-2 should be stored in working aliquots at -20 °C. Please prevent freeze-thaw cycles.

### Composition

Amino acid sequence:

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

Purity: > 97.0% by RP-HPLC and SDS-PAGE.

Biological activity: The ED<sub>50</sub> as determined by the dose-dependent stimulation of murine CTLL-2 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 1x10<sup>7</sup> IU/mg.

### Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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