

Datasheet

Interleukin 3

Human Recombinant

Product	Description	Catalogue-No.	Size
IL-3	Interleukin-3, human recombinant	CB-2130300 CB-2130301 CB-2130302	2 µg 10 µg 50 µg

Product description

Synonyms: MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulating factor, IL-3, hematopoietic growth factor.

IL-3 is a potent growth promoting cytokine that promotes the survival, differentiation and proliferation of a broad range of hematopoietic cell types. It is produced by T cells, mast cells, and eosinophils and enhances thrombopoieses, phagocytosis, and antibody-mediated cellular cytotoxicity. Because of its ability to activate monocytes, it is supposed to have additional immunoregulatory roles. Many of the activities mentioned above are dependent on co-stimulation with other cytokines.

IL-3 produced in *E. coli* is single polypeptide chain containing 133 amino acids with a molecular mass of 15.0 kDa

Solubility and storage conditions

The lyophilized IL-3 should be reconstituted in sterile distilled water 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-3, though stable at room temperature, is best stored desiccated below 0 °C. Reconstituted IL-3 should be stored in working aliquots at -20 °C.

Please prevent freeze-thaw cycles.

Composition

Amino acid sequence:

MAPMTQTTPLKTSWVNCNMIIDEIITHLKQPPLPLLDFFNNLNGEDQDILMENNLRPNLEAFNRAVKSL
 QNASAIESILKNLLPCLPLATAAPTRHPIHI KDGDWNEFRRLTFYLKTLNAQAQQTTLSLAIF

Purity: > 98.0% by SDS-PAGE and silver stain.

Biological activity: The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of TF-1 cells is < 0.1 – 0.5 ng/ml.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

Additional information will be available on our website: www.pan-biotech.com

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) or phone +49-8543-601630.