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# IL 3 Human

**Description:**Interleukin-3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15000 Dalton. The IL-3 is purified by proprietary chromatographic techniques.

**Synonyms:**MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

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

**Purity:**Greater than 98.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**
Lyophilized from a concentrated (1mg/ml) solution in water containing 0.3 mg/ml of NaHCO3.

**Stability:**
Lyophilized Interleukin-3 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL3 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**
It is recommended to reconstitute the lyophilized Interleukin-3 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**
IL3 is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.

**Biological Activity:**
The ED50 as determined by the dose-dependant stimulation of TF-1 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 10,000,000 IU/mg.

**References:**
1.Title:Interleukin-10 overexpression in macrophages suppresses atherosclerosis in hyperlipidemic mice.Publication:Published online before print March 30, 2010, doi: 10.1096/fj.09-148155 Aμgust 2010 The FASEB Journal vol. 24 no. 8 2869-2880 .Link:http://www.fasebj.org/content/24/8/2869.full2.Title:A Method for the Selection of Human

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