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IL 3 Mouse

Description: Interleukin-3 mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 135 amino acids and having a molecular mass of 15100 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 Met-Asp-Thr-His-Arg.

Purity: Greater than 97.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

Stability:
Lyophilized Interleukin-3 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-3 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).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:
Interleukin-3 is a pleiotropic cytokine produced primarily by activated T cells. IL-3 is thoμght to function via specific cell surface receptors to stimulate the proliferation, differentiation and survival of haematopoietic cell lines. IL-3 has also been shown to affect the functional activity of a variety of other cell types including mast cells, eosinophils, megakaryocytes and basophils.

Biological Activity:
The ED50 as determined by the dose-dependant stimulation of murine M-NFS-60 cells is < 0.05 ng/ml, corresponding to a Specific Activity of 20,000,000IU/mg.

References:
1.Title:Direct binding of Cbl to Y568 and Y936 of the stem cell factor receptor/c-Kit is required for ligand-induced ubiquitination, internalization and degradation.Publication:Biochemical Journal Immediate Publication. Published on 19 Jun 2006 as manuscript

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