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IL 3 Human, Sf9

Catalog #:CYPS-424

For research use only.

Description: Interleukin-3 Human Recombinant produced in insect cells is a single, glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15000 Dalton. The IL-3 CSF is fused to a C-terminal His-tag (6x His) and purified by proprietary chromatographic techniques.

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

Source: Insect Cells.

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-Ala-Pro-Thr.

Purity: Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Lyophilized from a concentrated (1mg/ml) solution in water containing 0.5X PBS pH-7.4.

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.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:
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 10,000,000IU/mg.

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