

## IL 5 Mouse

**Description:** Interleukin-5 Mouse Recombinant produced in E.Coli is a dimeric, non-glycosylated polypeptide chain containing 2 x 113 amino acids forming a disulfide linked homodimer and having a molecular mass of 26.2 kDa. The Mouse IL-5 is purified by proprietary chromatographic techniques.

**Synonyms:** EDF, BCDFII, TRF, T-cell replacing factor, Eosinophil differentiation factor, B cell differentiation factor II, IL-5, BCGF-II, Cytotoxic T-lymphocyte inducer, IL5.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MEIPMSTVVK ETLQLSAHR ALLTSNETMR LPVPTHKNHQ  
LCIGEIFQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE  
FLGVMSTEWA MEG.

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

**Formulation:**

Lyophilized from a concentrated (1mg/ml) solution containing 20mM Sodium Phosphate and 50mM NaCl pH-7.5.

**Stability:**

Lyophilized Mouse Interleukin-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse IL5 should be stored at 4°C between 2-7 days and for future use below -18°C. Please avoid freeze thaw cycles.

**Usage:**

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**Solubility:**

It is recommended to reconstitute the lyophilized Mouse Interleukin-5 in sterile 18M-cm H<sub>2</sub>O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

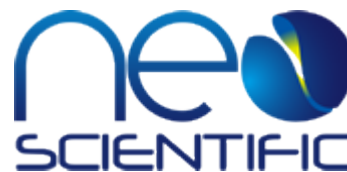
The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.

**Biological Activity:**

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The ED50 as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be 1.7ng/ml, corresponding to a specific activity of 588,235.3IU/mg.

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