

## 32-1409: mL 5 Recombinant Protein

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from a concentrated (1mg/ml) solution containing 20mM Sodium Phosphate and 50mM NaCl pH-7.5.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG.

### Application Note

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

