

## IL 5 Human

**Description:** Interleukin-5 Human Recombinant produced in E.Coli is a dimeric, non-glycosylated polypeptide chain containing two 113 amino acids chains, and having a molecular mass of 26522.84 Dalton. The IL-5 is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-219

**Synonyms:** EDF, BCDFII, TRF, T-cell replacing factor, Eosinophil differentiation factor, B cell differentiation factor I, IL-5.

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** IPTEIPTSAL VKETLALLST HRTLLIANET LRIPVPVHKN HQLCTEEIFQ  
GIGTLESQTV QGGTVERLFK NLSLIKKYID GQKKKCGEER RRVNQFLDYL QEFLGVMNTE  
WIIES

**Purity:** Greater than 97.0% as determined by HPLC and SDS-PAGE.

### Formulation:

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

### Stability:

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

### Usage:

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

### Solubility:

It is recommended to reconstitute the lyophilized Interleukin-5 in sterile 18M-cm H<sub>2</sub>O not less than 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:

The ED50 as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be <math>0.15\text{ng/ml}</math>, corresponding to a Specific Activity of  $6 \times 10^6$  IU/mg.

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