

---

## Product Data Sheet

---

Product Name: IL5 Mouse, HEK  
 Cat. No.: GP26044  
 Batch No.: 1

### Product Data

|                     |   |                    |               |
|---------------------|---|--------------------|---------------|
| Purity              | >98%  | Source             | HEK293 Cells. |
| Physical Appearance | solid   | Shipping Condition | withIcePacks  |
| Synonyms            | interleukin 5, Il, Il-5, B-cell growth factor II, EDF, BCGF-II, Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, TRFB cell differentiation factor I, T-cell replacing factor, TRF, B-cell differentiation factor I, IL5 |                    |               |
| Amino Acid Sequence | DGSMEIPMST VVKETLTQLS AHRALLTSNE TMRLPVPTHK NHQLCIGEIF QGLDILKNQT VRGGTVEMLF QNLSLIKKYI DRQKEKCGEE RRRTRQFLDY LQEFLGVMST EWAMEGHHHH HH  |                    |               |
| Formulation         | The IL5 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.  |                    |               |

### Introduction

The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. IL5 is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of IL5 is reported to be related to asthma or hypereosinophilic syndromes. The receptor of IL5 is a heterodimer, whose beta subunit is shared with the receptors for interleukin 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). IL5, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. IL5, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.

### Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range  $\leq$  3 ng/ml.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IL5 Mouse Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 122 amino acids (21-133 a.a) and having a molecular mass of 14.2 kDa. IL5 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**