



## Interleukin-5, rhesus macaque recombinant (rrmIL5)

**Catalog No:** 99935  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interleukin-5, IL-5, Eosinophil differentiation factor, T-cell replacing factor, TRF, IL5

### Background

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 interleukin 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.

### Description

IL5 Rhesus Macaque Recombinant, produced in *E. coli*, is a disulfide-linked homodimeric, non-glycosylated polypeptide protein containing two 115 amino acids chains. It has a total molecular mass of 26.1 kDa. The IL-5 Rhesus Macaque is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered, white, lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1x PBS (pH 7.4).

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-5 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

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

### Amino Acid Sequence

IPTEIPASAL VKETLALLST HRTLLIANET LRIPVPVHKN HQLCTEEIFQ GIGTLESQTV QGGTVERLFFK NLSLIKYYIG  
GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES

### Activity

The ED<sub>50</sub>, as determined by the dose-dependent stimulation of TF1 cells, is less than 4 ng/ml, corresponding to a specific activity of >2.5 x 10<sup>5</sup> IU/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

**CONTACT US TODAY**

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51