

**IL-3 $\beta$**   
**Catalog # PVGS1657****Specification**

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**IL-3 $\beta$  - Product Information**

Primary Accession [P97688](#)  
**Species**  
Rat

**Sequence**  
Met26-Cys169

**Purity**  
> 95% as analyzed by SDS-PAGE  
> 95% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/  $\mu$ g of protein by LAL method

**Biological Activity**  
The ED<sub>50</sub> as determined by a cell proliferation assay using murine MC-9 cells is less than 10.0 ng/ml, corresponding to a specific activity of  $1.0 \times 10^5$  IU/mg.

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
16.3 kDa

Formulation **Lyophilized from a 0.2  $\mu$ m filtered solution in PBS, pH 7.4.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -20°C or -70°C. Upon reconstitution, the product should be stable for up to 1 week at 2-8°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**IL-3 $\beta$  - Additional Information**

**Target Background**  
Interleukin-3 (IL-3) is a type of biological signal (cytokine) which is encoded by the IL-3 gene located on chromosome 5 and produced primarily by activated T cells beside human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes. It exerts its biological activities through binding to Interleukin-3 receptors included  $\alpha$  and  $\beta$  subunits, but sequence analysis revealed a number of features indicative of the presence of only one  $\beta$ -subunit in the rat. Interleukin-3 acts in hematopoiesis by controlling the production,

differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. Furthermore, rat and human IL-3 share low homology and have not cross species activity.

### **IL-3 $\beta$ - Protein Information**

### **IL-3 $\beta$ - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **IL-3 $\beta$ - Images**