

## Mouse recombinant IL-3 (Interleukin-3) protein, AF

Catalog Number: PROTP01586-4

### Overview

Product Name	Mouse recombinant IL-3 (Interleukin-3) protein, AF
Description	Interleukin-3 (IL-3) is a pleiotropic cytokine which can stimulate the survival, differentiation and proliferation of committed progenitor cells, including megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. IL-3 also enhances phagocytosis and antibody-mediated cellular cytotoxicity. IL-3 binds to IL-3R (IL-3 receptor), which is composed of a unique alpha subunit (IL-3Ralpha) and a common beta-subunit (betac).
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 16.04 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce NFS-60 cells proliferation. The ED<sub>50</sub> for this effect is 1x 10<sup>2</sup> IU/mg.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MDTHRLTRLNCCSSIVKEIIGKLPPELKTDDDEGPSLRNKSFRRVNLSKFVESQGEVDPEDRYVIKSNLQKLNCCCLPTSANDSALPGVFIRDLDDFRKKLRF  
YMVHLNDLETVLTSRPPQPASGSVSPNRGTVEC with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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