

## Human recombinant IL-13 (Interleukin-13) protein, AF

Catalog Number: PROTP35225-5

### Overview

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| Product Name | Human recombinant IL-13 (Interleukin-13) protein, AF   |
| Description  | Interleukin 13 (IL-13) with a molecular mass of 10 kDa cytokine, it secreted by T helper type 2 (Th2) cells, CD4 cells, natural killer T cell, mast cells, basophils, eosinophils and nuocytes. It is homologous to IL-4 and shares many of its biologic activities on mononuclear phagocytic cells, endothelial cells, epithelial cells, and B cells. |
| 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 8.0. 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

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 13.28 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

### Activity

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

### Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MGPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESINVSGCSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLL  
HLKKLFREGRFN 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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