



*Recombinant Human IL-13*  
(Interleukin-13)

*Catalog Number: 100-85*  
*Accession Number: P35225C*

*Specifications and Uses:*

**Alternate Names:** NC30

**Description:**

Interleukin-13 (IL-13) is an important cytokine secreted from Th2 cells. The functions attributed to IL-13 overlap significantly with those of IL-4 (induces IgE secretion from B cells and inhibits expression of inflammatory cytokines such as IL-1 $\beta$ , TNF- $\alpha$ , IL-8 and IL-6), but differs from IL-4 in that IL-13 seems to link inflammatory response of immune cells to the pathophysiological changes in the surrounding non-immune cells. The receptor subunits of IL-13 consist of IL-4R $\alpha$ , IL-13R $\alpha$ 1 and IL-13R $\alpha$ 2. Human and mouse IL-13 are cross-reactive. Recombinant human IL-13 is a non-glycosylated protein, containing 114 amino acids, with a molecular weight of 12.5 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IL-13 is lyophilized from 10 mM sodium citrate, pH 3.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with **20 mM HCl (allowing 3-4 minutes to reconstitute completely)** at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  95%) determined by:**

Reducing and Non-reducing SDS-PAGE

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the dose dependent proliferation of TF-1 cells and is typically less than 1 ng/mL.

**AA Sequence:**

SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL TAGMYCAALE SLINVSGCSA IEKTQRMLSG  
FCPHKVSAGQ FSSLHVRDTK IEVAQFVKDL LLHLKCLFRE GRFN

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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