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## Recombinant Rat Interleukin-13 rrIL-13

Product	Cat#	Package size
Recombinant Rat Interleukin-13	C6088.0002	2µg
Recombinant Rat Interleukin-13	C6088.0010	10µg
Recombinant Rat Interleukin-13	C6088.1000	1mg

### Product description

IL13 is an immunoregulatory cytokine produced primarily by activated Th2 cells. IL-13 is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.

Recombinant rat Interleukin-13 produced in *E.coli* is a single, non-glycosylated polypeptide chain of 113 amino acids and a molecular mass of 12.7 kDa

### Synonyms:

NC300, ALRH, BHR1, P600, IL-13.

Source: *E. coli*

### Biological activity

Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

Purity: >95% determined by SDS-PAGE (silver stained)

### Formulation

The sterile filtered solution was lyophilised from water (1mg/mL) containing no additives.

### Stability

The lyophilized protein is stable for a few weeks at room temperature, but best stored desiccated at -20°C. Reconstituted rrIL-13 should be stored at 4°C between 2 -7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thawing cycles.

### Reconstitution

We recommend to reconstitute the lyophilised rrIL-13 in sterile 18MΩ/cm water not less than 100µg/mL, which can then be further diluted to other aqueous solutions. This solution can then be stored at 4°C for 1 week or -20°C for future use.



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### **Protein Content**

Protein quantitation was carried out by two independent methods.

1. UV spectroscopy at 280 nm using the absorbency value of 0.69 as the extinction coefficient for a 0.1% (1mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of IL-13 as a Reference Standard

### **Usage**

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.