

### **Recombinant Human IL-13**

Catalog # PBG10191

# **Specification**

### Recombinant Human IL-13 - Product Information

### Recombinant Human IL-13 - Additional Information

# **Description**

IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1 $\beta$ , TNF- $\alpha$ , IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and murine IL-13 is cross-species reactive. Recombinant human IL-13 is a 12.6 kDa protein consisting of 115 amino acid residues.

# **Biological**Activity

The <strong>ED</strong><sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells was  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10$ <sup>6</sup> units/mg.

## **Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

### Endotoxin

Endotoxin level is <0.1 ng/  $\mu g$  of protein ( $<1EU/ \mu g$ ).

# **Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

# **Storage**

-20°C

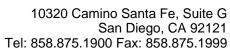
## **Precautions**

Recombinant Human IL-13 is for research use only and not for use in diagnostic or therapeutic procedures.

# Recombinant Human IL-13 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



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- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human IL-13 - Images