

**Recombinant Rat IL-13 (109 a.a.)**  
**Catalog # PBG10189****Specification**

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**Recombinant Rat IL-13 (109 a.a.) - Product Information****Recombinant Rat IL-13 (109 a.a.) - 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 rat IL-13 is an 11.9 kDa protein consisting of 109 amino acid residues.

**Biological Activity**

The **ED<sub>50</sub>** as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells is  $< 40$  ng/ml, corresponding to a specific activity of  $> 2.5 \times 10^4$  units/mg.

**Authenticity**

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

**Endotoxin**

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

**Protein Content**

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

**Storage**

-20°C

**Precautions**

Recombinant Rat IL-13 (109 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Rat IL-13 (109 a.a.) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Recombinant Rat IL-13 (109 a.a.) - Images**