

**Animal-Free Recombinant Human IL-10**  
**Catalog # PBG10518****Specification**

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**Animal-Free Recombinant Human IL-10 - Product Information****Animal-Free Recombinant Human IL-10 - Additional Information****Description**

IL-10 is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T cells, B cells and keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF $\alpha$ . Like IL-4, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 active on murine cells, but murine IL-10 is inactive on human cells. Recombinant human IL-10 is an 18.6 kDa protein of 161 amino acid residues.

**Biological Activity**

Determined by the dose-dependent co-stimulation (with human IL-4) of MC/9 cells. The  $ED_{50}$  was found to be  $\leq 2.0$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^5$  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**

Animal-Free Recombinant Human IL-10 is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human IL-10 - 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](#)

## **Animal-Free Recombinant Human IL-10 - Images**