

**Animal-Free Recombinant Human IL-9**  
**Catalog # PBG10517****Specification**

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**Animal-Free Recombinant Human IL-9 - Product Information****Animal-Free Recombinant Human IL-9 - Additional Information****Description**

IL-9 is an immunoregulatory cytokine produced by IL-2 activated Th2 lymphocytes. IL-9 enhances the proliferation of T lymphocytes, mast cells, erthroid precursor cells and megakaryoblastic leukemia cell lines. Over-expression of IL-9 has been implicated in the pathogenesis of anaplastic lymphoma and Hodgkin's disease. Whereas murine IL-9 can function on human cells, human IL-9 is inactive on M cells. Recombinant human IL-9 is a 14.0 kDa protein of 127 amino acid residues including 10 cysteine residues which are fully conserved between the human murine proteins.

**BiologicalActivity**

The  $ED_{50}$  as determined by the dose-dependent proliferation of human M07e cells was  $\leq 0.2$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^6$  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-9 is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human IL-9 - 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-9 - Images**