

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

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 ≤ 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/ μ g of protein (<1 EU/ μ 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