

Recombinant Murine IL-4

Catalog # PBG10236

Specification

Recombinant Murine IL-4 - Product Information

Recombinant Murine IL-4 - Additional Information

Description

IL-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy. Recombinant murine IL-4 is a 13.5 kDa globular protein containing 121 amino acid residues.

BiologicalActivity

```
The ED<sub>50</sub> was determined by the dose-dependent proliferation of murine HT-2 cells is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10<sup>5</sup> units/mg.
```

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

Endotoxin Endotoxin level is <0.1 ng/ μg of protein (<1EU/ μg).

Protein Content

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

Storage -20°C

Precautions

Recombinant Murine IL-4 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Murine IL-4 - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation



• <u>Flow Cytomety</u> • <u>Cell Culture</u> Recombinant Murine IL-4 - Images