

Animal-Free Recombinant Human IL-1 β
Catalog # PBG10509**Specification**

Animal-Free Recombinant Human IL-1 β - Product Information**Animal-Free Recombinant Human IL-1 β - Additional Information****Description**

IL-1 β is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 α and IL-1 β binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 β is a secreted cytokine, IL-1 α is predominantly a cell-associated cytokine. Recombinant human IL-1 β is a 17.3 kDa protein containing 153 amino acid residues.

Biological Activity

The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by murine D10S cells is ≤ 1.0 pg/ml, corresponding to a specific activity of $\geq 1 \times 10^9$ 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-1 β is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human IL-1 β - 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-1 β - Images