

Animal-Free Recombinant Human IL-1B

Catalog # PBG10509

Specification

Animal-Free Recombinant Human IL-1ß - Product Information

Animal-Free Recombinant Human IL-1β - 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.

BiologicalActivity

The ED₅₀ 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 ≥ 1 x 10⁹ units/mg.

Authenticity

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

Endotoxin

Endotoxin level is $<0.1 \text{ ng}/\mu\text{g}$ of protein ($<1\text{EU}/\mu\text{g}$).

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-1ß - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence





• Immunoprecipitation

- Flow CytometyCell Culture

Animal-Free Recombinant Human IL-1β - Images