



[Go to Product page](#)

Datasheet for ABIN2018033
IL-1 beta Protein (AA 117-269)

Overview

Quantity: 50 µg

Target: IL-1 beta (IL1B)

Protein Characteristics: AA 117-269

Origin: Human

Source: CHO Cells

Protein Type: Recombinant

Biological Activity: Active

Product Details

Characteristics: ED50 < 10 pg/mL, measured in a cell proliferation assay using D10S cells, corresponding to a specific activity of >1 x 10⁸ units/mg.

Purity: > 95 % as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Target Details

Target: IL-1 beta (IL1B)

Alternative Name: Interleukin-1 beta (IL-1 Beta) ([IL1B Products](#))

Background: Interleukin 1 beta is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1 beta 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

Target Details

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 beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine.
Synonyms: Catabolin, Interleukin-1 beta, IL1F2

Molecular Weight: 17kDa, observed by non-reducing SDS-PAGE.

NCBI Accession: [NP_000567](#)

Pathways: [NF-kappaB Signaling](#), [Interferon-gamma Pathway](#), [TLR Signaling](#), [Negative Regulation of Hormone Secretion](#), [Cellular Response to Molecule of Bacterial Origin](#), [Carbohydrate Homeostasis](#), [Glycosaminoglycan Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Autophagy](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Interleukin 1 beta (IL-1 beta) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-1 beta should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months