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## Human IL-1 beta Recombinant Protein Carrier-Free

**Catalog Number:** 34-8018

**Also Known As:** Interleukin-1 beta, IL1b

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Human IL-1 beta Recombinant Protein Carrier-Free

**REF** **Catalog Number:** 34-8018

**Concentration:** 0.5 mg/mL

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in sterile environment.

**Source:** E. coli expressed amino acids Ala 117-Ser 269 of human IL-1 beta accession # NM\_000576

**Molecular Mass:** The protein is not methionylated at the N-terminal and has a predicted molecular mass of 17,377. The DTT reduced and non-reduced proteins migrate as 18 kDa polypeptides on SDS-PAGE.

**Purity:** > 98%, as determined by SDS-PAGE

**Endotoxin Level:** Less than 0.01 ng/ug cytokine as determined by the LAL assay.

**Bioactivity:** The ED50 of this protein, as measured by D10S cell proliferation assay, is less than or equal to 125 pg/mL. This corresponds to a specific activity of greater than or equal to 8 x 10<sup>6</sup> Units/mg.

**Formulation:** Sterile liquid; phosphate buffered saline, pH 7.2, 150 mM NaCl. 0.22 um filtered.



**Temperature Limitation:** Store at less than or equal to -70°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

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### Description

Human IL-1 beta, also called lymphocyte activating factor (LAF), endogenous pyrogen (EP), leucocyte endogenous mediator (LEM), mononuclear cell factor (MCF), is produced by a wide variety of cells, including macrophages, dendritic cells, T cells and B cells. IL-1 beta is mostly released and has only 20% amino acid homology with IL-1 alpha. The immune regulatory role of IL-1 beta is exerted on a wide range of cells including lymphocytes, epithelial cells and fibroblasts. *In vivo*, it induces hypotension, fever, and acute phase response.

### Applications Reported

Recombinant human IL-1β is biologically active. The protein is reported for use in bioassay and as the standard for ELISA.

### Applications Tested

The ED50 of this protein, as measured by D10S cell proliferation assay, is less than or equal to 125 pg/mL. This corresponds to a specific activity of greater than or equal to 8 x 10<sup>6</sup> Units/mg.

### Related Products

13-7016 Anti-Human IL-1 beta Biotin (CRM57)

14-7018 Anti-Human IL-1 beta Purified (CRM56)

88-7010 Human IL-1 beta ELISA Ready-SET-Go!<sup>®</sup>

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