
Human IL-1 beta Recombinant Protein

Catalog Number: 14-8018

Also Known As: Interleukin-1 beta, IL1b

RUO: For Research Use Only

Product Information

Contents: Human IL-1 beta Recombinant Protein

REF **Catalog Number:** 14-8018

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

Source: E. coli expressed amino acids Ala 117-Ser 269 of human IL-1b (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: Greater than 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 10e6 Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 150 mM NaCl, with 1.0% BSA. 0.22 µm filtered.

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

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

Human IL-1β, 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-1β is mostly released and has only 20% amino acid homology with IL-1α. The immune regulatory role of IL-1β 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 10e6 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!®

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