
Mouse IL-1 beta Recombinant Protein Carrier-Free

Catalog Number: 34-8012

Also Known As: Interleukin-1 beta, IL1b

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

Product Information

Contents: Mouse IL-1 beta Recombinant Protein Carrier-Free

REF **Catalog Number:** 34-8012

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 Val 118-Ser 269 of mouse IL-1 beta accession # P10749

Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 17,393. 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: Measured by mouse D10S cell proliferation assay. The ED50 is 0.01 ng/mL, corresponding to a specific activity of 1.0 x 10⁸ Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, 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

Description

Mouse IL-1 beta, also called lymphocyte activating factor (LAF), endogenous pyrogen (EP), leucocyte endogenous mediator (LEM), mononuclear cell factor (MCF), is a ~17 kDa factor produced by a wide variety of cells, including macrophages, dendritic cells, T and B cells. IL-1\beta is mostly cell associated with 23% 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 mouse IL-1 β has been reported for use in cytokine bioassays. This recombinant protein is biologically active.

Applications Tested

This reagent has been tested by sandwich ELISA using the anti-mouse IL-1 β ELISA pair (B122/biotin-polyclonal) and in bioassays, with an observed ED₅₀ of 10 pg/ml, corresponding to a specific activity of approximately 1x10⁸ Units/mg.

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