

Mouse IL-1 beta Recombinant Protein


Catalog Number: 14-8012

Also Known As: Interleukin-1 beta, IL1b

RUO: For Research Use Only

Product Information

Contents: Mouse IL-1 beta Recombinant Protein

 Catalog Number: 14-8012

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

Source: E. coli expressed amino acids Val 118-Ser 269 of mouse IL-1 β (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: Greater than 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 U/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 150 mM NaCl, with 0.5% BSA. 0.22 μ m 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 β , 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 β is mostly cell associated with 23% amino acid homology with IL-1 α . The immune regulatory role of IL-1 β 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.

Related Products

13-7112 Anti-Mouse IL-1 beta Biotin (Polyclonal)

14-7012 Anti-Mouse/Rat IL-1 beta Purified (B122)

88-7013 Mouse IL-1 beta ELISA Ready-SET-Go!®

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com