

Mouse IL-1 alpha Recombinant Protein

Catalog Number: 14-8011

Also Known As: Interleukin-1 alpha, IL1a

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

Product Information

Contents: Mouse IL-1 alpha Recombinant Protein

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

Source: E. coli expressed amino acids Ser 115-Ser 270 of mouse IL-1 alpha accession # BC003727

Molecular Mass: The protein is not methionylated at the N-terminal. The DTT reduced and non-reduced protein 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, 1.0 BSA. 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 α , also called Lymphocyte Activating Factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), and Mononuclear Cell Factor (MCF), is an ~17 kDa factor produced by a wide variety of cells, including macrophages, dendritic cells, T and B cells. IL-1 α is mostly cell-associated, with 23% amino acid homology with IL-1 β . The immune regulatory role of IL-1 α 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 α is biologically active.

Applications Tested

This reagent has been tested by sandwich ELISA using the anti-mouse IL-1 α ELISA pair (ALF-161/biotin-polyclonal) and in bioassays with an observed ED₅₀ of 10 pg/ml, corresponding to a specific activity of 1.0 x 10⁸ U/mg.

Related Products

00-4202 ELISA Diluent Solution (5X)

13-7111 Anti-Mouse IL-1 alpha Biotin (Polyclonal)

14-7011 Anti-Mouse IL-1 alpha Purified (ALF-161)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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