
Human IL-1 alpha Recombinant Protein Carrier-Free

Catalog Number: 34-8019

Also known as: Interleukin-1 alpha

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

Product Information

Contents: Human IL-1 alpha Recombinant Protein Carrier-Free

 **Catalog Number:** 34-8019

Concentration: 0.5 mg/mL

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

Source: E. coli

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

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

Bioactivity: Measured by mouse D10S cell proliferation assay. The ED50 is 20.0 pg/mL, corresponding to a specific activity of 5.0 x 10⁷ Units/mg.

Formulation: Sterile liquid; 20 mM Tris, 0.3 M NaCl, 1 mM TCEP, 5% glycerol, pH 8.0

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

Batch Code: Refer to vial

Use By: Refer to vial



 **LOT**



Description

Human IL-1 alpha, also called lymphocyte activating factor (LAF), endogenous pyrogen (EP), leucocyte endogenous mediator (LEM), and mononuclear cell factor (MCF), is produced by a wide variety of cells, including macrophages, dendritic cells, T cells and B cells. IL-1 alpha is mostly cell associated and has only 20% amino acid homology with IL-1 beta. The immune regulatory role of IL-1 alpha 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-1 α is biologically active and is also useful as a cytokine standard for sandwich ELISA.

Applications Tested

The recombinant human IL-1 α has been tested as the standard in a human IL-1 α sandwich ELISA using the human IL-1 α ELISA pair (CRM8/CRM6), and in D10 cell proliferation bioassay, with an observed ED₅₀ of 20 pg/ml, corresponding to a specific activity of approximately 5x10⁷ Units/mg.

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