

# Rat IL 1 alpha Recombinant Protein



RPPB0450

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## Product Information    Protein Information

**Product SKU:**

RPPB0450

**Accession:**

P16598

**Host:**

Escherichia Coli.

**Protein description:**

Interleukin-1A Rat Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 155 amino acids and having a molecular mass of 17703 Dalton. The IL-1A is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL-1 alpha,IL1, IL-1A, IL1F1.

**Formulation:**

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 50mM Tris-HCl, pH=8.

**Purity:**

Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Interleukin 1a in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Interleukin-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1A should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-His-Ser-Phe.

**Biological Activity:**

The ED50 as determined by the dose-dependant stimulation of murine D10S cells is < 0.005 ng/ml, corresponding to a Specific Activity of 200,000,000IU/mg.