

# Human IL1A Recombinant Protein



RPPB0446

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## Product Information    Protein Information

**Product SKU:**

RPPB0446

**Accession:**

P01583

**Host:**

HEK.

**Protein description:**

Interleukin-1 alpha Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight of 18kDa due to glycosylation. The IL1A 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 IL-1A protein was lyophilized from a 0.2µm filtered solution of PBS pH 7.4 with 10% trehalose as protectant.

**Purity:**

Greater than 97.0% as determined by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized IL1A in deionized water to a stock solution of 0.5mg/ml.

**Stability:**

Lyophilized IL-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.

**Biological Activity:**

Assay # 1: The biological activity was measured by its binding ability in a functional ELISA, the ED50 is typically 0.5-5 µg/ml. Assay # 2: The biological activity was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells, the ED50 is typically less than 1pg/ml, corresponding to a specific activity of >1x10<sup>9</sup> unit/mg.