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# IL 1 alpha Rat

**Catalog #:**CYPS-388

For research use only.

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

**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.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**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.

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

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

**Stability:**
Lyophilized Interleukin-1a althoμgh 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.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

**Introduction:**
Interleukin-1 alpha is a proinflammatory cytokine produced by a wide variety of cell types, including macrophages, osteoblasts, monocytes and hepatocytes. Circulating levels of are normally low and only rise after stimulation by agents such as those produced byinflammation, infection or microbial endotoxins. IL-1 alpha possesses a wide variety of biological activities and exerts its effects by binding to specific cell surface receptors.

**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.

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