

Human IL 1 alpha Recombinant Protein



RPPB0443

Product Information Protein Information

Product SKU:

RPPB0443

Accession:

P01583

Host:

Escherichia Coli.

Protein description:

Interleukin-1 alpha Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 159 amino acids and having a molecular mass of 18022 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 25mM Tris-HCl, pH 8.

Purity:

Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

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

Stability:

Lyophilized Interleukin-1 alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-1a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid Sequence:

SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIIRANDQYLTAALHNLDEAV
KFDMGAYKSSKDDAKITVILRISKTLQVYVTAQDEDPVLLKEMPEIPKTTIG
SETNLLFFWETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILE NQA.

Biological Activity:

The ED₅₀ as determined by the dose-dependant stimulation of murine D10S cells is < 0.001 ng/ml, corresponding to a Specific Activity of 1 x 10⁹ IU/mg.