

RPPB0741

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## Product Information    Protein Information

**Product SKU:**

RPPB0741

**Accession:**

P17777

**Host:**

Escherichia Coli.

**Protein description:**

Leukemia Inhibitory Factor (LIF) Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 19.8 kDa. The Leukemia Inhibitory Factor (LIF) is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Leukemia inhibitory factor, Cholinergic neuronal differentiation factor, Lif.

**Formulation:**

LIF Rat was lyophilized from 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.

**Purity:**

Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Leukemia Inhibitory Factor (LIF) in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Leukemia Inhibitory Factor (LIF) although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leukemia Inhibitory Factor (LIF) 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:**

SPLPITPVNA TCAIRHPCHG NLMNQIKSQL AQLNGSANAL FISYYTAQGE PFPNNVDKLC APNMTDFPPF  
HANGTEKTKL VELYRMVTYL GASLTNITWD QKLNLP TAVS LQIKLNATTD VMRGLLSSVL CRLCNKYHVG  
HVDVPCVPDN SSKEAFQRKK LGCQLLGTYK QVISVLAQAF .

**Biological Activity:**

The activity of rat LIF is determined by the ability to induce differentiation of M1 myeloid leukemic cells. The minimum detectable concentration of rat LIF in this assay is 0.5ng/mL.