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LIF Rat

Catalog #:CYPS-738

For research use only.

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.

Synonyms: Leukemia inhibitory factor, Cholinergic neuronal differentiation factor, Lif.

Source: Escherichia Coli.

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

Amino Acid Sequence:SPLPITPVNA TCAIRHPCHG NLMNQIKSQL AQLNGSANAL FISYYTAQGE PFPNNVDKLC APNMTDFPPF HANGTEKTKL VELYRMVTYL GASLTNITWD QKNLNPTAVS LQIKLNATTD VMRGLLSSVL CRLCNKYHVG HVDVPCVPDN SSKEAFQRKK LGCQLLGTYK QVISVLAQAF .

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

Formulation:
LIF Rat was lyophilized from 0.2

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.

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

Solubility:
It is recommended to reconstitute the lyophilized Leukemia Inhibitory Factor (LIF) in sterile water not less than 100

Introduction:
Leukemia Inhibitory Factor also called LIF is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. Leukemia Inhibitory Factor has several functions such as cholinergic neuron differentiation, control of stem cell pluripotency, bone & fat metabolism, mitogenesis of factor dependent cell lines & promotion of megakaryocyte production in vivo. Human and mouse LIF exhibit a 78% identity in its amino acid sequence.

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.

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