9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LIF Rat

Leukemia Inhibitory Factor Rat Recombinant
CYK0480

Product Overview

Name	LIF Rat
Description	
Leukemia Inhibitory Factor Rat Recombinant	
Accession (Primary)	P17777
Synonyms	
Leukemia inhibitory factor, Cholinergic neuronal differentiation factor, Lif.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
LIF Rat was lyophilized from 0.2 μm filtered concentrated solution in 1xPBS, pH 7.4.	
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.	
Purity	
Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
SPLPITPVNA TCAIRHPCHG NLMNQIKSQL AQLNGSANAL FISYYTAQGE PFPNNVDKLC APNMTDFPPF HANGTEKTKL VELYRMVTYL GASLTNITWD QKNLNPTAVS LQIKLNATTD VMRGLLSSVL CRLCNKYHVG	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

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.

Solubility

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

Precautions

LIF Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P17777)