
Product Data Sheet

Product Name: LIF Human, Sf9
 Cat. No.: GP20722
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Leukemia Inhibitory Factor; Differentiation Inhibitory Activity; Cholinergic Differentiation Factor; Differentiation-Stimulating Factor; Hepatocyte-Stimulating Factor III; Differentiation-Inducing Factor; Melanoma-Derived LPL Inhibitor; Human Interleukin In DA Cells; D Factor; HILDA; MLPLI; Emfilermin; DIA; CDF; Leukemia inhibitory factor; LIF; Differentiation-stimulating factor; D factor; Melanoma-derived LPL inhibitor; MLPLI; Emfilermin.		
Amino Acid Sequence	ADPSPLPITP VNATCAIRHP CHNNLMNQIR SQAQLNGSA NALFILYYTA QGEPFPNNLD KLCGPNVTDF PPFHANGTEK AKLVELYRIV VYLGTSLGNI TRDQKILNPS ALSLHSKLNA TADILRGLLS NVLCRLCSKY HVGHVDTVYGPDTSGKDVVFQ KKKLGCQLLG KYKQIIAVLAQAFHHHHHHH.		
Formulation	LIF protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effects is less or equal to 0.5 ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

LIF Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 189 amino acids (23-202a.a.) and having a molecular mass of 20.8kDa (Molecular size on SDS-PAGE will appear at approximately 18-40kDa). LIF is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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