

## 32-6486: LIF Human, Sf9

<b>Application :</b>	Functional Assay
<b>Alternative Name :</b>	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.

### Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

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.

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.

### Product Info

<b>Amount :</b>	2 µg / 10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	LIF protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	ADPSPLPITP VNATCAIRHP CHNNLMNQIR SQAQLNGSA NALFILYYTA QGEPFPNNLD KLCGPNVTDF PPFHANGTEK AKLVELYRIV VYLGTSLGNI TRDQKILNPS ALSLHSKLNA TADILRGLLS NVLCRLCSKY HVGHVDVTYG PDTSGKDV FQ KKKLGCQLLG KYKQIIAVLAQAFHHHHHH.

### Application Note

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.