

Recombinant Mouse LIF

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|-------------------|---|-------|
| CATALOG #: | 4924-10 | 10 µg |
| | 4924-1000 | 1 mg |
| LOT #: | _____ | |
| SYNONYMS: | CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL inhibitor, MLPLI, Emfilermin, Leukemia inhibitory factor, LIF, DI | |
| SOURCE: | <i>E. coli</i> | |
| PURITY: | > 95 % by SDS-PAGE and RP-HPLC | |
| FORM: | Lyophilized from sterile solution containing 20 mM phosphate buffer, pH 7.4 and 0.02% Tween-20 | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted mouse LIF should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

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. Leukemia Inhibitory Factor (LIF) Murine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 181 amino acids and having a molecular mass of 20 kDa. The Leukemia Inhibitory Factor (LIF) is purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

MSPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEFPFNVEKLCAPN
MTDFPSFHGNGTEKTKLVELYRMVAYLSASLTNITRDQKVLNPTAVSLQVKLNATIDVMRGLLS
NVLCRLCNKYRVGHVDVPPVDPHSDKEAFQR KKLGCQLLGTYKQVISVVVQAF

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