

## Active Recombinant Mouse Lif, Fc-tagged, Biotinylated

Cat. No. Lif-720M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The recombinant mouse LIF-Fc fusion protein is expressed as a 419-amino acid protein consisting of Ser24 - Phe203 region of (UniProt accession #P09056) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.

**Species** Mouse

**Source** Human Cells

**ProteinLength** 24-203 a.a.

**Form** Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).

**Bio-activity** Stimulates TF-1 human erythroleukemic cell proliferation assay with an ED50 typically 0.4 - 1 ng/ml. Induce IL-6 secretion in M1 mouse myeloid leukemia cells. Supports the maintenance of embryonic stem (ES) cell pluripotency and germline competency.

**Molecular Mass** Calculated molecular mass (kDa): 46.6; Estimated by SDS-PAGE under reducing condition (kDa): 60-65

**AA Sequence**  
 SPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEPFPNNVEK  
 LCAPNMTDFPSFHGNGT EKTKLVELYRMVAYLSASLTNITRDQKVLNPTAVSLQVKL  
 NATIDVMRGLLSNVLCRLCNKYRVGHVDVPPVPD HSDKEAFQRKKLGCQLLGTYK  
 QVISVVVQAFGSTTENLYFQGSGTHTCPPCPAPELLGGPSVFLFPPKPKDTL MISR  
 TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH

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QDWLNGKEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT  
 CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD SDGSFFLYSKLTVDKSRWQQGN  
 VFSCSVMEALHNHYTQKSLSLSPGK

**Endotoxin**

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein=""  
 determined="" by="" the="" lal="">

**Purity**

>90% judged by SDS-PAGE under reducing condition

**Storage**

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation**

Biotin

## GENE INFORMATION

**Gene Name**

[Lif leukemia inhibitory factor \[ Mus musculus \]](#)

**Official Symbol**

[Lif](#)

**Synonyms**

LIF; leukemia inhibitory factor; d factor; differentiation-stimulating factor;

**Gene ID**

[16878](#)

**mRNA Refseq**

[NM\\_001039537](#)

**Protein Refseq**

[NP\\_001034626](#)

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**MIM****UniProt ID****Pathway**

Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; ESC Pluripotency Pathways, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem;

**Function**

cytokine activity; cytokine activity; growth factor activity; growth factor activity; leukemia inhibitory factor receptor binding; receptor binding;

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