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 QVISVVVQAFGSTTENLYFQGSTGTHTCPPCPAPELLGGPSVFLFPPKPKDTL MISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH

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	QDWLNGKEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT CLVKGFYPSDIAVEWESNGQPENNYKTTPPVLD SDGSFFLYSKLTVDKSRWQQGN VFSCSVMHEALHNHYTQKSLSLSPGK
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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