

Active Recombinant Human LIF, His-tagged, Biotinylated

Cat. No. LIF-634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human LIF is expressed as a 202-amino acid protein consisting of Ser23 - Phe202 region of (UniProt accession #P15018) and a C-terminal His-tag. It contains 6 potential N-linked glycosylation sites.
Species	Human
Source	Human Cells
ProteinLength	23-202 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 0.1 - 0.2 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): 22.3; Estimated by SDS-PAGE under reducing condition (kDa): 45-50.
AA Sequence	SPLPITPVNA TCAIRHPCHN NLMNQIRSQL AQLNGSANAL FILYYTAQGE PFPNNLDKLCGPNVTDFFPF HANGTEKAKL VELYRIVVYL GTSLGNITRD QKILNPSALS LHSKLNATADILRGLLSNVL CRLCSKYHVG HVDVTYGPDT SGKDVFQKKK LGCQLLGKYK QIIAVLAQAFGSTTENLYFQ GSTGHHHHHH HH

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Endotoxin	<0.1 eu per 1 µg of purified recombinant protein determined by the lal>
Purity	>95% 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 [Homo sapiens]
Official Symbol	LIF
Synonyms	LIF; leukemia inhibitory factor; CDF; cholinergic differentiation factor; DIA; differentiation inhibitory activity; differentiation inducing factor; hepatocyte stimulating factor III; HILDA; human interleukin in DA cells; D factor; melanoma-derived LPL inhibitor; differentiation-inducing factor; hepatocyte-stimulating factor III; differentiation-stimulating factor; MLPLI;
Gene ID	3976
mRNA Refseq	NM_001257135
Protein Refseq	NP_001244064

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MIM	159540
UniProt ID	P15018
Chromosome Location	22q12.2
Pathway	Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Direct p53 effectors, 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; growth factor activity; leukemia inhibitory factor receptor binding; leukemia inhibitory factor receptor binding; receptor binding;

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