

# Active Recombinant Human LIF Protein (Ser23-Phe202), N-His tagged, Animal-free, Carrier-free

Cat. No. LIF-211H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human LIF Protein (Ser23-Phe202) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser23-Phe202
<b>Description</b>	Leukemia inhibitory factor (LIF) is a pleiotropic glycoprotein, belonging to the IL-6 receptor family. LIF is a 19.7 kDa protein containing 202 amino acid which high expression in human liver, bone, uterus, kidney and the central nervous system. LIF is an inducer of differentiation in M1 leukemia cells, osteoblasts and glia. Not only stimulates proliferation of DA1 cells inhibits proliferation of corticotrophs and promote cell survival in some cell types but also induce apoptosis in others.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 0.2 ng/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 20.52 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

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<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	LIF leukemia inhibitory factor [ Homo sapiens (human) ]
<b>Official Symbol</b>	LIF
<b>Synonyms</b>	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;
<b>Gene ID</b>	3976

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<b>mRNA Refseq</b>	NM_001257135
<b>Protein Refseq</b>	NP_001244064
<b>MIM</b>	159540
<b>UniProt ID</b>	P15018

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