

## Active Recombinant Human LIF Protein

Cat. No. LIF-206H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human LIF Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Leukemia inhibitory factor (LIF) is a member of the interleukin 6 (IL-6) family that is made by a variety of adult and embryonic tissues. LIF signals through the glycoprotein 130 (gp130)/LIF receptor (LIFR) heterodimer to activate STAT3 and MAPK signaling. LIF functions during hematopoietic differentiation, neuronal cell differentiation, kidney development, and inflammatory processes. Human LIF may also be an important factor during human embryonic stem cell (hESC) self-renewal, pluripotency, and embryonic implantation.
<b>Bio-activity</b>	TF-1 cell proliferation, $\leq 200$ pg/mL; $\geq 5.0 \times 10^6$ units/mg
<b>Molecular Mass</b>	Monomer, 19.8 kDa (181 aa)
<b>AA Sequence</b>	MSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLD KLCGPNVTDFFPPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPSALSLSHSL NATADILRGLLSNVLCRLCSKYHVGHVVDVTYGPDTSGKDV FQKKKLG CQLLGKYKQI IAVLAQAF
<b>Endotoxin</b>	$\leq 1$ EUs/ $\mu$ g, Kinetic LAL

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<b>Purity</b>	≥95%, Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
<b>Storage</b>	Storage Prior to Reconstitution: -20 centigrade
<b>Storage Buffer</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>Reconstitution</b>	Sterile 10 mM acetic acid at 0.1 mg/mL
<b>Shipping</b>	Room temperature
<b>Instructions</b>	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

## 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;

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Gene ID	3976
mRNA Refseq	NM_001257135
Protein Refseq	NP_001244064
MIM	159540
UniProt ID	P15018

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