

Active Recombinant Human LIF Protein

Cat. No. LIF-39H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LIF Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	LIF is a pleiotropic member of the IL6 family of cytokines produced by multiple cell types, including T cells, myelomonocytic lineages, fibroblasts, liver, heart and melanoma. LIF functions through a heterodimeric receptor complex containing a ligand binding subunit, LIF R, and a signal transducing subunit gp130 with complex effects. LIF either induces or inhibits differentiation in different cell environments. LIF promotes long-term maintenance of pluripotency in embryonic stem cells by suppressing spontaneous differentiation. Other activities include the stimulation of protein synthesis by hepatocytes, and differentiation of cholinergic nerves acute phase protein synthesis by hepatocytes, stimulation of differentiation of cholinergic nerves, and suppression of adipogenesis by inhibiting the lipoprotein lipase in adipocytes.
Bio-activity	The specific activity was determined by the dose-dependent simulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).
Molecular Mass	19.5 kDa
Endotoxin	<1 EU/ µg

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Purity	>95% by SDS-PAGE
Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

GENE INFORMATION

Gene Name	LIF leukemia inhibitory factor [Homo sapiens (human)]
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
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UniProt ID	P15018
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