LIF Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	LIF, Recombinant Protein
Full Product Name	Recombinant Mouse LIF Protein
Product Gene Name	LIF recombinant protein
Product Synonym Names	HILDA; Leukemia inhibitory factor; LIF; Differentiation-stimulating factor; D factor; Melanoma-derived LPL inhibitor; MLPLI; Emfilermin
Sequence	SPLPITPVNA TCAIRHPCHG NLMNQIKNQL AQLNGSANAL FISYYTAQGE PFPNNVEKLC APNMTDFPSF HGNGTEKTKL VELYRMVAYL SASLTNITRD QKVLNPTAVS LQVKLNATID VMRGLLSNVL CRLCNKYRVG HVDVPPVPDH SDKEAFQRKK LGCQLLGTYK QVISVVVQAF *
Host	E Coli
Species Reactivity	Mouse
Form/Format	Lyophilized from a 0.2 muM filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Purity/Purification	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	22,287 Da
3D Structure	ModBase 3D Structure for P09056
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for LIF recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for LIF recombinant protein	Recombinant Mouse LIF Protein is produced by our E Coli expression system and the target gene encoding Ser24-Phe203 is expressed.
Other Notes	Small volumes of LIF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LIF purchase	MBS8249390 is a recombinant protein targeting LIF. Also known as Recombinant Mouse LIF Protein. Reactive in Mouse. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIF. It may not necessarily be applicable to this product.

NCBI GI #	88014736
NCBI GeneID	16878
NCBI Accession #	NP_001034626.1
UniProt Primary Accession #	P09056

UniProt Related Accession #	P09056
GenBank Nucleotide #	NM_001039537.2
NCBI Official Full Name	leukemia inhibitory factor isoform b
NCBI Official Synonym Full Names	leukemia inhibitory factor
NCBI Official Symbol	Lif
UniProt Protein Name	Leukemia inhibitory factor
UniProt Synonym Protein Names	Differentiation-stimulating factor; D factor
Protein Family	Leukemia inhibitory factor
UniProt Gene Name	Lif
UniProt Synonym Gene Names	LIF; D factor
UniProt Entry Name	LIF_MOUSE
NCBI Protein Information	leukemia inhibitory factor
UniProt Comments for LIF	LIF: LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes. Belongs to the LIF/OSM family. Protein type: Secreted; Secreted, signal peptide Cellular Component: cytoplasm; extracellular space Molecular Function: cytokine activity; growth factor activity; leukemia inhibitory factor receptor binding; receptor binding Biological Process: alveolus development; astrocyte differentiation; blood vessel remodeling; decidualization; embryo implantation; leukemia inhibitory factor signaling pathway; lung development; maternal process involved in pregnancy; muscle morphogenesis; negative regulation of angiogenesis; negative regulation of cell proliferation; negative regulation of hormone secretion; negative regulation of meiosis; neuron development; organ regeneration; positive regulation of adrenocorticotropic hormone secretion; positive regulation of astrocyte differentiation; positive regulation of cell proliferation; positive regulation of macrophage differentiation; positive regulation of MAPKKK cascade; positive regulation of peptidyl-serine phosphorylation; positive regulation of peptidyl-serine phosphorylation of STAT protein; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of tyrosine phosphorylation of Stat1 protein; positive regulation of tyrosine phosphorylation of Stat3 protein; regulation of cell differentiation; retina development in camera-type eye; stem cell differentiation; stem cell maintenance; tyrosine phosphorylation of Stat3 protein
Research Articles on LIF	**1.** These results establish that Bcl3 positively regulates pluripotency genes and thus shed light on the mechanism of Bcl3 as a downstream molecule of LIF/STAT3 signaling in pluripotency maintenance.
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