

Active Recombinant Mouse Lif Protein

Cat. No. Lif-7267M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse LIF is a 19.9 kDa protein containing 180 amino acids residues, including three disulfide bonds without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	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.
Form	Lyophilized (0.2 µm Sterile filtered) purified protein with no Additives
Bio-activity	Murine LIF is fully biologically active when compared to standards. The ED50 as determined by the M1 cell differentiation assay is = 0.05 ng/mL, corresponding to a specific activity of = 2×10^7 units/mg.
Molecular Mass	19.9 kDa
AA Sequence	SPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEPFPNNVEK LCAPNMTDFPSFHGNGTEKTKLVELYRMVAYLSASLTNITRDQKVLNPTAVSLQVKL NATIDVMRGLLSNVLCRLCNKYRVGHVDVPPVPDHSKKEAFQRKKLGCQLLGTYKQ VISVVVQAF

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Endotoxin	< 0.1 ng/μg (1EU/μg)
Purity	> 98 % by SDS-PAGE and HPLC
Stability	Shelf life: one year from despatch.
Storage	Store lyophilized at 2-8 centigrade for 6 months or at -20 centigrade long term. After reconstitution store the antibody undiluted at 2-8 centigrade for one month or (in aliquots) at -20 centigrade long term. Avoid repeated freezing and thawing.
Reconstitution	Restore in sterile water to a concentration of 0.1-1.0 mg/mL. Centrifuge the vial before opening. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1 % BSA) and store in working aliquots at -20 to -80 centigrade.

GENE INFORMATION

Gene Name	Lif leukemia inhibitory factor [Mus musculus (house mouse)]
Official Symbol	Lif
Synonyms	Lif; leukemia inhibitory factor; leukemia inhibitory factor; d factor; differentiation-stimulating factor; myeloid leukaemia inhibitory factor
Gene ID	16878
mRNA Refseq	NM_001039537
Protein Refseq	NP_001034626

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UniProt ID

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