

Active Recombinant Mouse leukemia inhibitory factor Protein, His tagged

Cat. No. Lif-140M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LIF protein (P09056) (Ser 24-Phe 203) with a His tag at the C-terminus was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	24-203aa
Description	The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. 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.
Tag	C-His
Bio-activity	Mouse LIF can replace fibroblast feeding layer or other conditioned medium under the condition of 1000 U/mL, maintain the undifferentiated state of mouse embryonic stem

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	cells ES.W4 and promote cell proliferation.
Molecular Mass	21.2 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

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

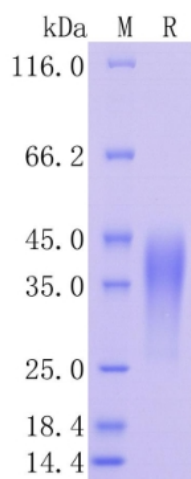
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UniProt ID P09056

Protein on SDS-
PAGE under
reducing (R)
condition.



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