

RP02522

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# Recombinant Mouse Leukemia inhibitory factor/LIF Protein

Catalog No.: RP02522

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16878	P09056

### Tags

C-His

### Synonyms

LIF;CDF;DIA;HILDA;MLPLI;LIF

## Product Information

### Source

<I>E. coli</I>

### Purification

> 95% by SDS-PAGE.

### Endotoxin

<0.1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

LIF, a pleiotrophic factor, is identified in multiple cell types, including T cells, myelomonocytic lineages, fibroblasts, liver, heart and melanoma. LIF is capable of promoting long-term maintenance of embryonic stem cells by inhibiting spontaneous differentiation. In addition, LIF also have abilities including stimulation of differentiation of cholinergic nerves, the stimulation of acute phase protein synthesis by hepatocytes, and suppression of adipogenesis by suppressing the lipoprotein lipase in adipocytes.

## Basic Information

### Description

Recombinant Mouse Leukemia inhibitory factor/LIF Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence of Mouse LIF fused with polyhistidine tag at the N-terminus

### Bio-Activity

Measured by its ability to inhibit IL-6 secretion in M1 cells. The ED<sub>50</sub> for this effect is <0.5 ng/mL. The specific activity of recombinant mouse LIF is > 2 x 10<sup>6</sup> IU/mg.

### Storage

Store the lyophilized protein at -20°C to -80°C for long term.<br>After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

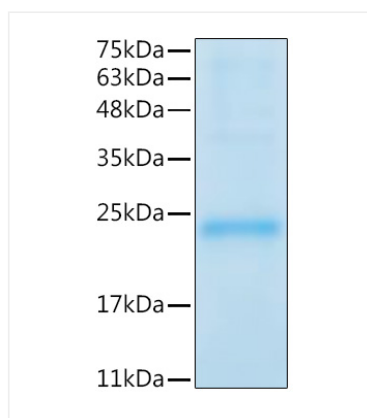
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Mouse Leukemia inhibitory factor/LIF Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 24 kDa.