

# Recombinant Rat Leukemia inhibitory factor/LIF Protein

Catalog No.: RP01892 **Recombinant**

## Sequence Information

**Species**    **Gene ID**    **Swiss Prot**  
 Rat            60584            P17777

**Tags**

C-His

**Synonyms**

CDF; DIA; Differentiation-stimulating Factor; D Factor; Emfilermin; HILDA; Melanoma-derived LPL Inhibitor; MLPLI

## Background

Leukemia inhibitory factor (LIF) is a member of Interleukin 6 family. This protein is mainly expressed in the trophectoderm of the developing embryo, with its receptor LIFR expressed throughout the inner cell mass. Mature human LIF shares 78%, 82%, 91%, 88 and 87% aa sequence identity with mouse, rat, canine, bovine, and porcine LIF, respectively. LIF is multifunctional cytokines with many similar activities. LIF is structurally and functionally related to another cytokine, Oncostatin M (OSM), that binds to the high-affinity LIF receptor but not to the low-affinity LIF receptor. While some of the actions of LIF on neurons resemble those of CNTF, LIF also has broad actions outside of the nervous system that in many cases mimic those of interleukin-6 (IL-6).

## Basic Information

**Description**

Recombinant Rat Leukemia inhibitory factor/LIF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser23-Phe202) of Rat LIF/Leukemia inhibitory factor (Accession #P17777) fused with a His tag at the C-terminus.

**Bio-Activity**

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
 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.

**Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

**Source**    **Purification**  
 HEK293 cells     $\geq 95\%$  as  
                   determined by SDS-PAGE.

**Calculated MW**    **Observed MW**  
 20.63 kDa    35-45 kDa

**Endotoxin**

< 0.01 EU/μg of the protein by LAL method

**Formulation**

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

**Reconstitution**

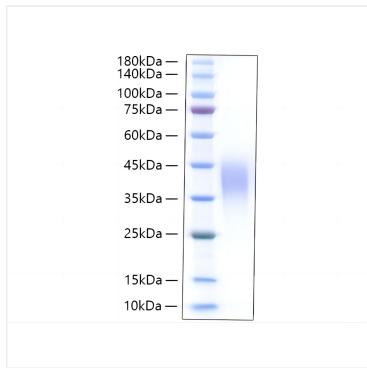
Centrifuge the vial before opening.  
 Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.  
 Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Validation Data

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Recombinant Rat Leukemia inhibitory factor/LIF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.