

Recombinant Human Leukemia inhibitory factor /LIF Protein

Catalog No.: RP00089

Sequence Information

Species **Gene ID**
Human 3976

Swiss Prot **Tags**
P15018 C-His

Synonyms
LIF,CDF,DIA,HILDA,MLPLI

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
20.56 kDa 33-45 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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.

Background

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.

Basic Information

Description

Recombinant Human Leukemia inhibitory factor/LIF Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser23-Phe202) of human LIF (Accession #NP_002300.1) fused with a 6×His tag at the C-terminus.

Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.1-0.3 ng/mL, corresponding to a specific activity of 3.33×10⁶-1×10⁷ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

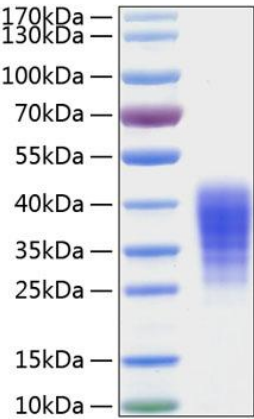
Contact

☎ | 400-999-6126

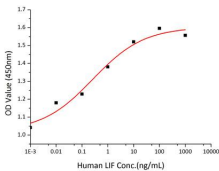
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



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



Recombinant Human LIF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.1–0.3 ng/mL, corresponding to a specific activity of 3.33×10⁶–1×10⁷units/mg.