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LIF
Recombinant Human Leukemia Inhibitory Factor

Catalog No.	CRL126A	**Quantity:**	5 µg
	CRL126B		10 µg
	CRL126C		1 mg

Alternate Names: LIF, CDF, DIA, HILDA, MLPLI

Description: Leukemia Inhibitory Factor (LIF) is a member of the IL-6 family and 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.

Gene ID: 3976

UniProt ID: P15018

Source: *E. coli*

Molecular Weight: 19.9 kDa (181 aa)

Formulation: Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg of protein by kinetic LAL

Biological Activity: $ED_{50} \leq 200$ pg/ml, determined by TF-1 cell proliferation.

Specific Activity: $\geq 5.0 \times 10^6$ U/mg

Amino Acid Sequence: MSPLPITPVN ATCAIRHPCH NNLMNQIRSQ LAQLNGSANA LFILYYTAQG EPFPNNLDKL CGPNVTDFPP FHANGTEKAK LVELYRIVVY LGTSLGNITR DQKILNPSAL SLHSKLNATA DILRGLLSNV LCRLCSKYHV GHVDVTYGPD TSGKDVFQKK KLGCQLLGKY KQIIAVLAQA F

Reconstitution: **Centrifuge vial prior to opening.** Add sterile 10 mM acetic acid to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.

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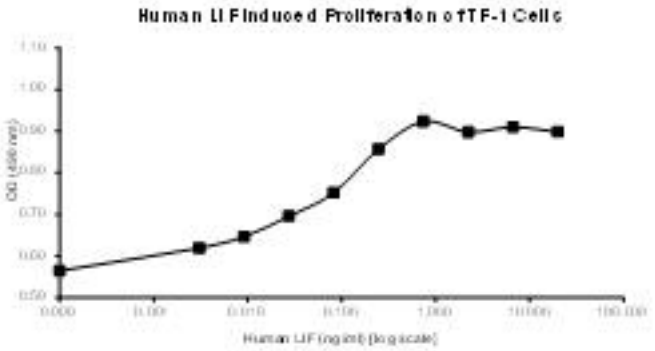
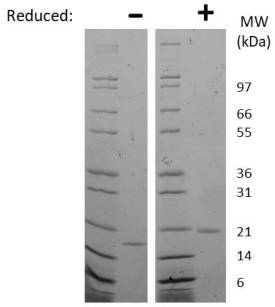
Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Store as supplied at -20°C to -80°C for up to 1 year.
Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.
Avoid repeated freeze-thaw cycles.





Human LIF Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human LIF is predicted to have a MW of 19.8 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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