

LIF Human Recombinant, Yeast

Item Number	rAP-0705
Synonyms	CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL inhibitor, MLPLI, Emfil-ermin, Leukemia inhibitory factor, LIF, DIA.
Description	LIF Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 58.5 kDa. The LIF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P15018
Amino Acid Sequence	SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQNLNGSANALFILYYTAQGEP FPNNLDKLCGPNVTDFFPPFHANGTEKAKLVELYRIVVYLGTSLGNI TRDQKILNPSALSLHSKLNATADILRGLLSNVLCR LCSKYHVGHVDVTVGPDTSGKDVFQKKKLGCQLLGKYKQIIAVLAQAF.
Source	Pichia pastoris.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized LIF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LIF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized from a 0.2 µm filtered PBS. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized LIF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity of recombinant human LIF was measured by the ability to induce differentiation of murine M1 myeloid leukemic cells. The minimal detectable concentration of human LIF in this assay is <0.05 ng/mL. The specific activity is > 1
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**