

Human LIF Recombinant Protein



RPPB0737

Product Information Protein Information

Product SKU:

RPPB0737

Accession:

P15018

Host:

Pichia pastoris.

Protein 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.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL inhibitor, MLPLI, Emfilermin, Leukemia inhibitory factor, LIF, DIA.

Formulation:

The protein was lyophilized from a 0.2 µm filtered PBS.

Purity:

Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized LIF in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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.

Amino Acid Sequence:

SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPP
NNDKLCGPNVTDFFPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPS
ALSLHSKLNATADILRGLLSNVLCRLCSKYHVGHVDVTYGPDTSGKDVFQKKK
LGCQLLGKYYKQIIAVLAQAF.

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 x 10⁸ units/mg.