

Product: Leukemia Inhibitory Factor, Human, Recombinant
Catalog #: 11-LIF-H
Amount: 5 µg

DESCRIPTION: Recombinant Human Leukemia Inhibitory Factor (rHuLIF)
rHuLIF is single, non-glycosylated, Polypeptide chain containing 180 amino acids and having a molecular mass of 19715 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Pro-Leu-Pro-Ile.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 97.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuLIF

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.46 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences
2. Analysis by RP-HPLC, using a calibrated solution of human LIF as a Reference Standard.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles.

BIOLOGICAL ACTIVITY: rHuLIF is fully biologically active when compared to standards.
The ED₅₀ was determined by the M1 cell differentiation assay is ≤ 0.01 ng/ml, corresponding to a specific activity of ≥ 1x10⁸ units/mg

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