

## 37-1147: Human LIF Recombinant Protein(Discontinued)

**Reactivity :** Human

**Alternative Name :** CDF Protein, DIA Protein, HILDA Protein, Leukemia Inhibitory Factor Protein, MLPLI Protein,

### Description

#### Source : HEK293 Cells

Leukemia inhibitory factor (LIF) is a pleiotropic glycoprotein belonging to the IL-6 family of cytokines. It's involved in growth promotion and cell differentiation of different types of target cells, influence on bone metabolism, cachexia, neural development, embryogenesis and inflammation. LIF has potent proinflammatory property, being the inducer of the acute phase protein synthesis and affecting the cell recruitment into the area of damage or inflammation. LIF is also one of the cytokines that are capable to regulate the differentiation of embryonic stem cells, hematopoietic and neuronal cells. LIF binds to the specific LIF receptor (LIFR-alpha) which forms a heterodimer with a specific subunit common to all members of that family of receptors, the GP13 signal transducing subunit. This leads to activation of the JAK/STAT and MAPK cascades. Due to its polyfunctional activities, LIF is involved in the pathogenic events and development of many diseases of various origin.

### Product Info

**Amount :** Human LIF Recombinant Protein(Discontinued) / 50 µg

**Purification :** > 95 % as determined by SDS-PAGE

**Content :** Formulation Lyophilized from sterile PBS, pH 7.4.  
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Phe202

### Application Note

Measured by its ability to inhibit the proliferation of M1 mouse myeloid leukemia cells. The ED50 for this effect is typically 0.2-0.8 ng/mL.

Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method.

Other pack size also available.

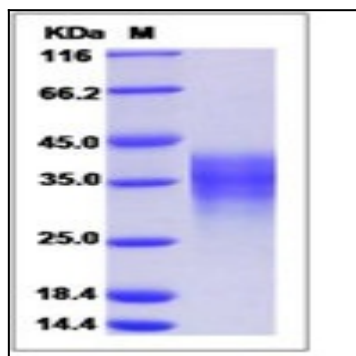


Fig 1: Human LIF Recombinant Protein

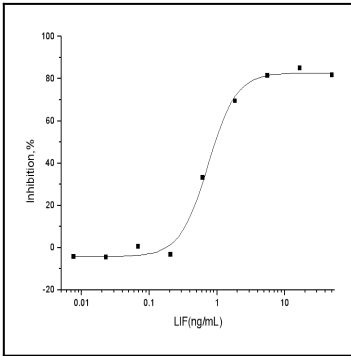


Fig 2: Human LIF Recombinant Protein measured by its ability to inhibit the proliferation of M1 mouse myeloid leukemia cells.