A Reliable Research Partner in Life Science and Medicine

# Recombinant Human LIF Protein (Fc Tag)

Catalog Number: PKSH031990

Note: Centrifuge before opening to ensure complete recovery of vial contents.

# Description

Species Human

Source HEK293 Cells-derived Human LIF protein Met 1-Phe202, with an C-terminal hFc

Calculated MW 46.7 kDa
Observed MW 63 kDa
Accession P15018

**Bio-activity** Measured by its ability to inhibit the proliferation of M1 mouse myeloid leukemia cells.

The ED<sub>50</sub> for this effect is typically 2-12 ng/ml.

# **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

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

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

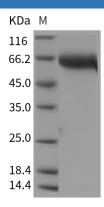
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### **Background**

# **Elabscience Bionovation Inc.**

A Reliable Research Partner in Life Science and Medicine

**Elabscience®** 

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-α) which forms a heterodimer with a specific subunit common to all members of that family of receptors; the GP130 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.

Fax: 1-832-243-6017