

General Information

Gene Name Synonym

Differentiation-stimulating factor; Melanoma-derived LPL inhibitor

Protein Construction

A DNA sequence encoding the human LIF (P15018)(Met1-Phe202) was expressed with the Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to inhibit the proliferation of M1 mouse myeloid leukemia cells. The ED₅₀ for this effect is typically 0.6-3 ng/ml.
2. Measured by its ability to bind human LIFR-His (Cat:501711) in a functional ELISA.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

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

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ser 23

Molecular Mass

The recombinant human LIF/Fc is a disulfide-linked homodimer. The reduced monomer comprises 421 amino acids and has a predicted molecular mass of 46.7 kDa. The apparent molecular mass of the protein is approximately 63 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

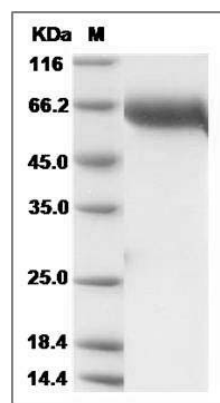
Storage

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.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human LIF Protein (Fc Tag) SDS-PAGE