

**RMCH169**

Recombinant LIF, Human , AF

 5ug;20ug;100ug;500ug;

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**Synonym/Alternative name(s):**

Differentiation-stimulating factor, D factor, Melanoma-derived LPL inhibitor (MLP\_x005f LI), Interleukin 6 family cytokine

**Activity:**

Measure by its ability to induce TF-1 cells proliferation.

The ED50 for this effect is <0.2 ng/mL.

**Protein Description:**

LIF, a pleiotrophic factor, is identified in multiple cell types, including T cells, myelomonocytic lineages, fibroblasts, liver, heart and melanoma. LIF is capable of promoting long-term maintenance of embryonic stem cells by inhibiting spontaneous differentiation. In addition, LIF also have abilities including stimulation of differentiation of cholinergic nerves, the stimulation of acute phase protein synthesis by hepatocytes, and suppression of adipogenesis by supressing the lipoprotein lipase in adipocytes.

**Protein Accession :** P15018.1

**Gene ID :** 3976

**Expression Sequence:**

SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPPNLDKLCGPNVTDFFPPFHANGTEKAKLVELYRIVVYL  
GTSLGNITRDQKILNPSALSLSKLNATADILRGLLSNVLCRLCSKYHVGHVDVTYGPDTSKGKDVFKKKLGCQLLGKYGKQIIAVLAQAF  
with polyhistidine tag at the N-terminus.

**Fusion tag :** His-tag?at?the?N-terminus

**Species :** Human

**Reactivity :** Human

**Expression Host :** Escherichia coli

**Source :** E. coli

**Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

**Endotoxin level:**

<0.1 EU per 1 µg of the protein by the LAL method.

**Calculated Molecular Weight :** 20.52 kDa

**Formulation:**

The protein was lyophilized from a solution containing 1XPBS, pH 7.4.

**Reconstitution:**

It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping :** Blue Ice

**Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

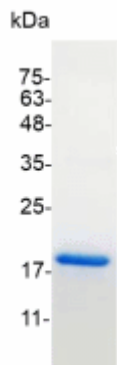
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant human LIF