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Human recombinant LIF protein, AF

Catalog Number: PROTP15018-8

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Overview

Product Name	Human recombinant LIF protein, AF
Description	Leukemia inhibitory factor (LIF) is a pleiotropic glycoprotein, belonging to the IL-6 receptor family. LIF is a 19.7 kDa protein containing 202 amino acid which high expression in human liver, bone, uterus, kidney and the central nervous system. LIF is an inducer of differentiation in M1 leukemia cells, osteoblasts and glia. Not only stimulates proliferation of DA1 cells inhibits proliferation of corticotrophs and promote cell survival in some cell types but also induce apoptosis in others.
Size	5ug,20ug,100ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

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. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 20.52 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce TF-1 cells proliferation. The ED_{50} for this effect is <0.2 ng/mL.

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Endotoxin

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

Amino Acid Sequence

SPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDFPPFHANGTEKAKLVELYRIVVYLGTSLGNITRDQ KILNPSALSLHSKLNATADILRGLLSNVLCRLCSKYHVGHVDVTYGPDTSGKDVFQKKKLGCQLLGKYKQIIAVLAQAF with polyhistidine tag at the N-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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Human recombinant LIF protein, AF

For Research Use Only. Not for use in diagnostic procedures.