

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 32-7015: Recombinant Human Leukemia Inhibitory Factor/LIF

Gene ID: 3976 Uniprot ID: P15018

## **Description**

Source: E.coli. MW :19.7kD.

Recombinant Human Leukemia Inhibitory Factor is produced by our E.coli expression system and the target gene encoding Ser23-Phe202 is expressed. Leukemia Inhibitory Factor (LIF) is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. LIF has a number of other activities including cholinergic neuron differentiation, control of stem cell pluripotency, bone and fat metabolism, mitogenesis of certain factor dependent cell lines and promotion of megakaryocyte production in vivo. Human and murine mature LIF exhibit a 78% sequence identity at the amino acid level. Human LIF is equally active on human and mouse cells. Murine LIF is approximately 1000 fold less active on human cells than human LIF.

## **Product Info**

**Amount :**  $10 \mu g / 50 \mu g$ 

Content: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 0.02% Tween 20, pH 7.4.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted

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

Amino Acid: MSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPFPNNLDKLCGPNVTDFPPFHANG

TEKAKLVELYRIVVYLGTSLGNITRDQKILNPSALSLHSKLNATADILRGLLSNVLCRLCSKYHVGHVDVTYGPDT

SGKDVFQKKKLGCQLLGKYKQIIAVLAQAF

## **Application Note**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\tilde{A} \square \hat{A} \mu g/ml$ . Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin**: Less than 0.1 ng/ $\tilde{A} \square \hat{A} \mu g$  (1 IEU/ $\tilde{A} \square \hat{A} \mu g$ ) as determined by LAL test.

**Biological Activity:** ED50 is less than 0.01 ng/ml. Specific Activity of 1.0 x 10^8 IU/mg.