

RECOMBINANT GLYCOSYLATED HUMAN LEUKEMIA INHIBITORY FACTOR

CATALOG NUMBER:	LIF4010
LOT NUMBER:	
QUANTITY:	10 µg
CONCENTRATION:	10 µg / mL
DESCRIPTION:	Leukemia Inhibitory Factor (LIF) is a lymphoid factor which 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 <i>in vivo</i> . Glycosylated Human LIF exhibits a molecular weight of 38 - 67kDa due to extensive and variable glycosylation ¹ .
SOURCE:	Glycosylated human LIF is expressed as a recombinant protein in CHO cells and purified by immunopurification and HPLC chromatography.
PURITY:	Greater than 95% by SDS-PAGE. Endotoxin level is less than 0.1 ng per µg of LIF. Tested negative in both aseptic and microplasmic tests.
ACTIVITY:	The activity of human LIF is determined by the ability to induce differentiation of M1 myeloid leukemic cells. The minimum detectable concentration of human LIF in this assay is 0.5 ng/mL. The specific activity is >1 x 10 ⁸ units/mg, where 50 units is defined as the amount of human LIF required to induce differentiation in 50% of the M1 colonies in 1 mL agar cultures
PRESENTATION:	Liquid in PBS, pH 7.4 and 0.02% Tween 20. No preservatives added.
STORAGE/HANDLING:	Maintain at 2-8°C until expiration date. Further dilutions should be made into buffer or medium to which protein (e.g., 1% BSA) or Tween 20 has been added.
REFERENCES:	<ol style="list-style-type: none">1. Gough N. et al. (1989). Cancer Cells 11 (3), pg. 77 - 802. Taupin T. et al. (1997). Cytokine 9 (2) pg. 112-118

For research use only; not for use as a diagnostic.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.