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32-12225: Human Leukemia Inhibitory Factor (AF)

Gene :	LIF
Gene ID :	3976
Uniprot ID :	P15018
Alternative Name :	Leukemia inhibitory factor, Differentiation-stimulating factor, Melanoma-derived LPL inhibitor, EmfilerminÂ Â Â Â Â Â Â Â Â Â Â Â Â

Description

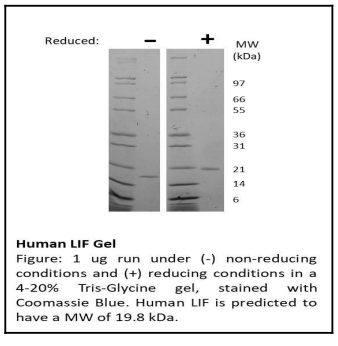
Source: Genetically modified E.coli.
Predicted MW:Â Monomer, 19.8 kDa (181 aa)
Leukemia inhibitory factor (LIF) is a member of the interleukin 6 (IL-6) family that is made by a variety of adult and embryonic tissues. LIF signals through the glycoprotein 130 (gp130)/LIF receptor (LIFR) heterodimer to activate STAT3 and MAPK signaling. LIF functions during hematopoietic differentiation, neuronal cell differentiation, kidney development, and inflammatory processes. Human LIF may also be an important factor during human embryonic stem cell (hESC) self-renewal, pluripotency, and embryonic implantation.

Product Info

Amount :	25 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) Sterile 10 mM acetic acid at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MSPLPITPVN ATCAIRHPCH NNLMNQIRSQ LAQLNGSANA LFILYYTAQG EPFPNNLDKL CGPNVTDFPP FHANGTEKAK LVELYRIVVY LGTSLGNITR DQKILNPSAL SLHSKLNATA DILRGLLSNV LCRLCSKYHV GHVDVTYGPD TSGKDVFQKK KLGCQLLGKY KQIIAVLAQA F

Application Note

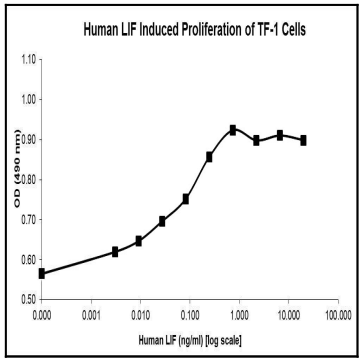
Endotoxin: Less than 0.1 ng/Ã‚Âµg (1 IEU/Ã‚Âµg) as determined by LAL test.
Biological Activity was determined by TF-1 cell proliferation at <=200 pg/mL; >= 5.0 x 10^6 units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Ã‚Â°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



Human LIF Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human LIF is predicted to have a MW of 19.8 kDa.

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

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