

32-12226: Mouse Leukemia Inhibitory Factor

Gene : Lif
Gene ID : 16878
Uniprot ID : P09056
Alternative Name : Leukemia inhibitory factor, Differentiation-stimulating factor, D factor

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 20 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. Mouse LIF promotes mouse embryonic stem (ES) cell self-renewal and pluripotency in long-term cell culture systems, similar to the functional activity of FGF-basic in human ES cell culture systems.

Product Info

Amount : 20 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$
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 GNLNMQIKNQ LAQLNGSANA LFISYYTAQG EFPNNVEKL CAPNMTDFPS FHNGNGTEKTK LVELYRMVAY LSASLTNITR DQKVLNPTAV SLQVKLNATI DVMRGLLSNV LCRLCNKYRV GHVDVPPVPD HSDKEAFQRK KLGCQLLGTY KQVISVVVQA F

Application Note

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by IL-6 production by M1 cells at ≤ 1 ng/mL; $\geq 1.0 \times 10^6$ 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 -80°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 vial to compensate for this loss.



