

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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DATA SHEET

GFM200

Recombinant Mouse LIF

Description

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. The application of mouse LIF to long-term culture systems promotes mouse embryonic stem cell (ESC) self-renewal and pluripotency, similar to the functional activity of FGF-2 in human ESC cell culture systems.

Length181 aaMolecular Weight20 kDaSourceE. coliAccession NumberP09056

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names Leukocyte Inhibitory Factor, leukemia inhibitory factor, cholinergic differentiation factor

Biological Activity Mouse LIF is fully biologically active when compared to standard. The specific activity of the sample is

approximately 1 x 10^8 units/mg, in which 10^6 units are identical of 10 μg of pure protein sufficient to treat 1 L of stem cells including human embryonic stem cells, neural stem cells, hematopoietic stem cells, mesenchymal

stem cells and induced pluripotent stem cells.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

AA Sequence MSPLPITPVN ATCAIRHPCH GNLMNQIKNQ LAQLNGSANA LFISYYTAQG EPFPNNVEKL CAPNMTDFPS FHGNGTEKTK LVELYRMVAY LSASLTNITR DQKVLNPTAV SLQVKLNATI

CAPNMTDFPS FHGNGTEKTK LVELYRMVAY LSASLTNITR DQKVLNPTAV SLQVKLNATI DVMRGLLSNV LCRLCNKYRV GHVDVPPVPD HSDKEAFQRK KLGCQLLGTY KQVISVVVQA F

Preparation and Storage

ReconstitutionCentrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the

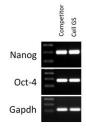
vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM acetic acid at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

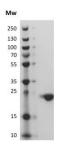
Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

Data





Expression of the two common pluripotency markers Nanog and Oct-4 in the presence of mouse LIF was assessed with RT-PCR. Gapdh is the loading control.

Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human MCP-1 has a predicted Mw of 8.7 kDa.