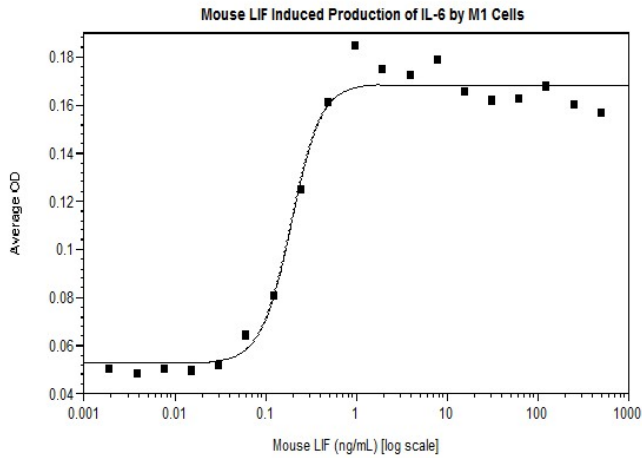


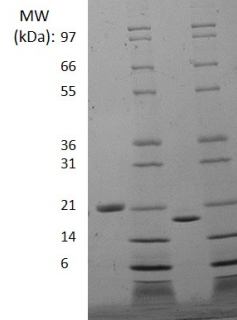
Lif

Recombinant Mouse LIF, Animal Free

Catalog No.	CSI20150A-AF CSI20150B-AF CSI20150C-AF	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	Leukemia inhibitory factor, Lif		
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>		
Gene ID:	16878		
UniProt ID:	P09056		
Source:	<i>E. coli</i> Manufactured without Animal-derived products, in an Animal Free facility.		
Molecular Weight:	20 kDa (181 aa) monomer		
Formulation:	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 1.0 ng/ml, determined by dose-dependent induction of IL-6 in mouse M1 cells.		
Specific Activity:	≥ 1.0 x 10 ⁶ units/mg		
Amino Acid Sequence:	MSPLPITPVN ATCAIRHPCH GNLMNQIKNQ LAQLNGSANA LFISYYTAQG EFPNVEKL CAPNMTDFPS FHGNGTEKTK LVELYRMVAY LSASLTNITR DQKVLNPTAV SLQVKLNATI DVMRGLLSNV LCRLCNKYRV GHVDVPPVPD HSDKEAFQRK KLGCQLLGTQ KQVISVVVQA F		
Reconstitution:	Centrifuge vial prior to opening. Add sterile 10 mM acetic acid to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. Avoid repeated freeze-thaw cycles.		



Reduced: + -



Mouse LIF Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse LIF has a predicted MW of 20.0 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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