Recombinant Murine Leukemia Inhibitory Factor (rMuLIF)
Catalog Number: 123-07

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 *in vivo*.
Synonyms	D-FACTOR, differentiation-stimulating factor
AA Sequence	MSPLPITPVN ATCAIRHPCH GNLMNQIKNQ LAQLNGSANA LFISYYTAQG EPFPNNVEKL CAPNMTDFPS FHGNGTEKTK LVELYRMVAY LSASLTNITR DQKVLNPTAV SLQVKLNATI DVMRGLLSNV LCRLCNKYRV GHVDVPPVPD HSDKEAFQRK KLGCQLLGTY KQVISVVVQA F
Source	*Escherichia coli*
Molecular Weight	Approximately 20 kDa, a single non-glycosylated polypeptide chain containing 181 amino acids.
Purity	>98% by SDS-PAGE and HPLC analyses.
Biological Activity	Activity determined by its ability to induce differentiation of murine M1 myeloid leukemic cells. Minimum detectable concentration in assay is 0.5ng/mL, corresponding to specific activity > 1 x 10^8 units/ mg.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 20mM PB, pH 7.4, with 0.02% TWEEN 20.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.