

Product: Leukemia Inhibitory Factor – mouse (mLIF)
Cat #: 400-495

Description	Gemini's mLIF (Leukemia Inhibitory Factor – mouse) is a lymphoid factor which is involved in a number of reproductive, inflammatory, developmental and regenerative processes. LIF promotes long-term maintenance of pluripotent stem cells by suppressing spontaneous differentiation. LIF is also involved in a number of other biological processes including neural and hematopoietic cell differentiation, bone and fat metabolism, and mitogenesis of certain factor dependent cell lines.
Physical Appearance	mLIF supplement is supplied in liquid form as 10^7 Units in 1.0 mL or 10^6 Units in 100 μ L of phosphate buffered saline with 1% w/v bovine serum albumin BSA as a carrier for stability. 1×10^7 units is sufficient to treat 10L of ES cell culture media and 10^6 units is sufficient to treat 1L of ES cell culture media
Identity	Confirmed by western blot analysis using protein specific antibody
Endotoxin Level	Endotoxin level is less than 0.1 ng per μ g of LIF
Purity and Sterility	The active component mLIF has been shown to be >95% pure by SDS-PAGE. mLif supplement is supplied 0.22 micron filtered
Storage and Handling	For long term storage it is recommended that mLIF concentrate be stored at 2-8°C. Freeze thawing will reduce potency. It is recommended that prior to use, mLIF supplement should be diluted in sterile tissue culture media and aliquoted to a convenient concentration, then stored at 2-8°C. Freeze-thawing should be avoided. Technically speaking mLIF can be shipped ambient, cold packs are included for customer relations, however it is truly not needed. This product is stable for at least 18 months from the date of manufacture, in the concentrated form or diluted in sterile tissue culture media, with no loss of activity on ES cells.