

Product Information

Monoclonal Anti-Leukemia Inhibitory Factor**Clone 139124**

produced in rat, purified immunoglobulin

Catalog Number **L0544****Product Description**

Anti-Leukemia Inhibitory Factor (rmLIF) is developed from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, *E. coli*-derived, recombinant mouse leukemia inhibitory factor (GenoID 16878). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Anti-Leukemia Inhibitory Factor recognizes mouse Leukemia inhibitory factor. This product has been tested for use in immunoblotting. In this format, no cross-reactivity was observed with rmIL-6, rmIL-11, rhLIF, rmCT-1, rhCLC or rrCNTF.

Leukemia inhibitory factor is a multifunctional glycoprotein that induces macrophage differentiation and suppresses the proliferation of the murine M1 myeloid cell line.¹

Reagent

Supplied lyophilized from a 0.2 µm filtered solution of phosphate buffered saline with 5% trehalose.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

To one vial of lyophilized powder, add 1 mL of 0.2 µm filtered PBS to produce a 0.5 mg/mL stock solution. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

Storage/Stability

Prior to reconstitution, store at -20 °C. The reconstituted product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

Product Profile

Immunoblotting: a working concentration of 1-2 µg/mL is recommended. The detection limit for recombinant mouse LIF is ~5 ng/lane under non-reducing and reducing conditions.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

Endotoxin: < 0.1 EU/µg antibody as determined by the LAL method.

References

1. Gearing, D., et al., *EMBO J.*, **6**, 3995 (1987).
2. Moreau, F.J., et al., *Nature*, **336**, 690 (1988).

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