*Optimize Your Research*

# Recombinant Mouse Leukemia inhibitory Factor protein

## Code CD00323

**Storage:** This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

## Intended Use

This product is for research use only, not for use in diagnosis procedures. It is highly recommended to read this instruction entirely before the use.

## Source

Escherichia coli.

## Molecular Weight

Approximately 19.9 kDa, a single non-glycosylated polypeptide chain containing 180 amino acids.

## Purity

> 98 % by SDS-PAGE and HPLC analyses.

## Biological Activity

Fully biologically active when compared to standard. The specific activity is determined by inducing differentiation of Mouse M1 myeloid leukemic cells. The minimum detectable concentration of rMuLIF in this assay is 0.01 ng/ml. The specific activity of > 1.0 × 108 IU/mg, where 50 units is defined as the amount of rMuLIF required to induce differentiation in 50 % of the M1 colonies in 1 ml agar cultures.

## Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

## Formulation

Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, with 0.02 % TWEEN 20.

## Sequence

SPLPITPVNA TCAIRHPCHG NLMNQIKNQL AQLNGSANAL FISYYTAQGE PFPNNVEKLC APNMTDFPSF HGNGTEKTKL VELYRMVAYL SASLTNITRD QKVLNPTAVS LQVKLNATID VMRGLLSNVL CRLCNKYRVG HVDVPPVPDH SDKEAFQRKK LGCQLLGTYK QVISVVVQAF

## Endotoxin

Less than 1 EU/μg of rMuLIF as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

If you have any question on order please contact us via: order@bt-laboratory.com; technical assistance please contact us via: support@bt-laboratory.com More product visit www.bt-laboratory.com

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