

★ Storage

Store at -20°C.

★ Contents

- Product Manual
- LIF, Mouse Recombinant, 1 MIU/ml

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Ship with ice pack.

★ Introduction

Leukemia Inhibitory Factor also called LIF is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. Leukemia Inhibitory Factor has several functions such as cholinergic neuron differentiation, control of stem cell pluripotency, bone & fat metabolism, mitogenesis of factor dependent cell lines & promotion of megakaryocyte production in vivo. Human and mouse LIF exhibit a 78% identity in its amino acid sequence. Leukemia Inhibitory Factor (LIF) Murine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 181 amino acids and having a molecular mass of 20 kDa. The Leukemia Inhibitory Factor (LIF) is purified by proprietary chromatographic technique.

★ Source

E.Coli

★ Formulation

10 MIU/ml in DMEM

★ Amino Acid Sequence

MSPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEPFP
 NNVEKLCAPNMTDFPSFHGNGTEKTKLVELYRMVAYLSASLTNITRDQKVLNP
 TAVSLQVKLNATIDVMRGLLSNVLRCRCNKYRVGHVDVPPVDPHSDKEAFQR
 KKLGCQLLGTQYKQVISVVQAF.

★ Biological Activity

Activity of murine LIF was determined by its ability to induce differentiation of murine M1 myeloid leukemic cells. Min. detectable conc. of murine LIF in this specific bioassay was found to be 0.5 ng/mL. The specific activity is 100 MIU/mg, where 50U is defined as the amount of murine LIF required to induce differentiation in 50% of the M1 colonies per of agar culture.

★ Related Products

| Product Name | Cat No |
|---|--------|
| Albumin | A0100 |
| Ceracryo Cell Freezing Media, Xeno Free | C0667 |
| Cellmaxin Plus, 10.5mg/ml | C3319 |
| Scraptase, Non-animal Original Dissociation Reagent (1X) | CA110 |
| Ceracol Collagen Type I Solution, 1mg/ml | CA081 |
| Fibronectin, Bovine, Stabilized Solution, 1mg/ml | CA082 |
| Fibronectin, Human, Stabilized Solution, 1mg/ml | CA083 |
| Insulin-Transferrin-Selenium Solution I (1,000X), Animal Free | CA200 |
| Fetal Bovine Serum, Premium, US Origin | F0600 |
| FBS, Mouse Embryonic Stem cell and iPSC Optimized | F0650 |
| FBS Opti-Gold | F0900 |
| FBS Opti-Gold, Premium, Heat Inactivated | F0910 |
| Fungizol PS (100X) | F2100 |
| Glutaplex, 200mM (100X) | G7000 |
| LIF, Mouse Recombinant, 10 MIU/ml | L4501 |
| WATER, 0.1um Final Filtered, cell culture tested | W0900 |