

PRODUCT INFORMATION SUMMARY

RAT LIF

(Leukemia Inhibitory Factor)

PRODUCT NUMBER RC333122

Purified factor 10 ug

DESCRIPTION:

Rat Leukemia Inhibitory Factor (LIF) is a lymphokine which suppresses spontaneous differentiation and exerts long-term maintenance of embryonic stem cells. LIF has other effects on many cell lines including mitogenesis and promotion of megakaryocyte production. Rat LIF has molecular weight of 19.9 kDa with 183 amino acid residues. A 91% aa. sequence homology exists with Mouse LIF. Rat LIF is believed to be more effective in maintaining the undifferentiated phenotype of rat ES cells than mouse LIF.

SOURCE: E.Coli as fusion protein with GST, cleaved from GST with thrombin, purified by ion-exchange chromatography.

Purity greater than 85% by HPLC analysis
Endotoxin level < 0.1 ng per ug Rat LIF.

HANDLING AND STORAGE:

Provided as **liquid (PBS, pH 7.4, 0.02% Tween 20) and 10% glycerol** solution. Preservative-free Rat LIF should be further diluted in PBS or other buffered solutions **containing protein carrier** (1% BSA or Tween 20). This can be stored in small aliquots **frozen** at -20° C. Avoid freeze-thaw cycles. **STORE ALIQUOTS FROZEN.**

BIOACTIVITY:

Fully biologically active as compared to standards. Specific activity corresponding to 1×10^8 units/mg. Units as determined by M1 (Myeloid Leukemic Cells) cell differentiation assay.
(0.5 ng/mL minimal detectable concentration)

WARRANTY: Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

Manufactured under patent 5,187,077, European patent 0285448

FOR RESEARCH USE ONLY. NOT FOR THERAPEUTIC OR DRUG USE.