

Recombinant Human LIF

Catalog No: C017

Description	Recombinant Human Leukemia Inhibitory Factor is produced by our E.coli expression system and the target gene encoding Ser23-Phe202 is expressed.		
Source	E. coli		
Alternative name	Leukemia Inhibitory Factor; LIF; Differentiation-Stimulating Factor; D Factor; Melanoma-Derived LPL Inhibitor; MLPLI; Emfimermin; LIF; HILDA		
Accession No.	P15018		
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 0.02% Tween 20, pH 7.4.		
Quality Control	Bioactivity*	ED50 is less than 0.01 ng/ml. Specific Activity of 1.0 x 10^8 IU/mg. measured by the M1 cell differentiation assay.	
	Purity:	Greater than 95% as determined by reducing SDS-PAGE.	
	Endotoxin:	Less than 0.1 ng/μg (1 IEU/μg).	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.		
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.		
	Reconstituted protein solution can be stored at 4-7°C for 2-7 days.		
	Aliquots of reconstituted samples are stable at < -20°C for 3 months.		

Background

Leukemia Inhibitory Factor (LIF) is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. LIF has a number of other activities including cholinergic neuron differentiation, control of stem cell pluripotency, bone and fat metabolism, mitogenesis of certain factor dependent cell lines and promotion of megakaryocyte production in vivo. Human and murine mature LIF exhibit a 78% sequence identity at the amino acid level. Human LIF is equally active on human and mouse cells. Murine LIF is approximately 1000 fold less active on human cells than human LIF.

SDS-PAGE

