

LIF, human recombinant protein

Leukemia Inhibitory Factor Catalog # PBV10489r

Specification

LIF, human recombinant protein - Product info

Primary Accession	<u>P15018</u>			
Calculated MW	19.7	kDa	KDa	

LIF, human recombinant protein - Additional Info

 Gene ID
 3976

 Gene Symbol
 LIF

 Other Names
 Leukemia Inhibitory Factor, Differentiation-stimulating factor, D factor, Melanoma-derived LPL inhibitor, INN=Emfilermin

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC; ≥95%
Recombinant	Yes
Application Notes	
Reconstitute in H ₂ O to a concentra	ation of 0.1-1.0 mg/ml. The solution can the

Reconstitute in H_2O to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

Format Lyophilized protein

Storage -20°C; Lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.

LIF, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

LIF, human recombinant protein - Images

LIF, human recombinant protein - Background



Leukemia Inhibitory Factor (LIF) is a lymphoid factor that promotes long-term maintenance of embryonic stem cells by suppressing spontaneous differentiation. LIF 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. Human LIF is as active on human cells as is it is on mouse cells, though mouse LIF is about 1000 fold less active on human cells, than human LIF. Recombinant human LIF produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 19.7 kDa.