9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

LIF Human, Yeast

LIF Human Recombinant, Yeast
CYK0478

Product Overview

Name	LIF Human, Yeast
Description	
LIF Human Recombinant, Yeast	
Accession (Primary)	P15018
Synonyms	
CDF, HILDA, D-FACTOR, Differentiation- stimulating factor, Melanoma-derived LPL inhibitor, MLPLI, Emfilermin, Leukemia inhibitory factor, LIF, DIA.	
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.	
Source	
Pichia pastoris.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a 0.2 µm filtered PBS.	
Stability	
Lyophilized LIF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LIF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
S P L P I T P V N A T C A I R H P C H N N L M N Q I R S Q L A Q L N G S A N A L F I L Y Y T A Q G E P F P N N L D K L C G P N V T D F P P F H A N G T E K A K L V E L Y R I V V Y L G T S L G N I T R D Q K I L N P S A L S L H S	

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K L N A T A D I L R G L L S N V L C R L C S K Y H V G H V D V T Y G P D T S G K D V F Q K K K L G C Q L L G K Y K Q I I A V L A Q A F.

Biological Activity

The biological activity of recombinant human LIF was measured by the ability to induce differentiation of murine M1 myeloid leukemic cells. The minimal detectable concentration of human LIF in this assay is 1 x 10 8 units/mg.

Solubility

It is recommended to reconstitute the lyophilized LIF in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

LIF Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P15018)