
Product Data Sheet

Product Name: LIF Human, His
 Cat. No.: GP20723
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CDF; HILDA; D-FACTOR; Differentiation- stimulating factor; Melanoma-derived LPL inhibitor; MLPLI; Emfilermin; Leukemia inhibitory factor; LIF; DIA.		
Amino Acid Sequence	MKHHHHHHAS PLPITPVNAT CAIRHPCHNN LMNQIRSCLA QLNGSANALF ILYYTAQGEP FPNLDKLCG PNVTDFPPFH ANGTEKAKLV ELYRIVVYLG TSLGNITRDQ KILNPSALS L HSKLNATADI LRGLLSNVLC RLCSKYHVGH VDVTYGPPTS GKDVVFQKKK GCQLLGKYKQ IIAVLAQAF.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	LIF filtered (0.4 μ m) and lyophilized from 0.5mg/ml solution in 20 mM Tris buffer, 20 mM NaCl and 5% w/v trehalose, pH 7.5.		

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.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

LIF Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 23-202) containing 189 amino acids including a 9 a.a N-terminal His tag. The total molecular mass is 20.9kDa (calculated).

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