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**Product Data Sheet**


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Product Name: LIF Human, GST

Cat. No.: GP20720

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	D factor; MLPLI; HILDA; Emfilermin; Leukemia Inhibitory factor; Differentiation-stimulating factor; Melanoma-derived LPL inhibitor.		
Amino Acid Sequence	MHHHHHHMSP ILGYWKIKGL VQPTRLLEY LEEKYEEHLY ERDEGDKWRN KKFELGLEFP NLPYYIDGDV KLTQSMAIIR YIADKHNMLG GCPKERAIS MLEGAVLDIR YGVSRIAYSK DFETLKVDFL SKLPEMLKMF EDRLCHKTYL NGDHVTHPDF MLYDALDVVL YMDPMCLDAF PKLVCFKKRI EAIPQIDKYL KSSKYIAWPL QGWQATFGGG DHPPKSDLVP RGS HMSPLPI TPNATCAIR HPCHNNLMNQ IRSQLAQLNG SANALFILYY TAQGEFPNN LDKLCGPNVT DFPPFHANGT EKAKLVELYR IVVYLGTSLG NITRDQKILN PSALSLHSLK NATADILRGL LSNVLCRLCS KYHVGHV DVT YGPDTSGKDV FQKKKLG CQL LGKYKQIIAV LAQAF		
Formulation	The LIF GST protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) 1mM DTT, 50mM NaCl and 20% glycerol.		

**Introduction**

Leukemia inhibitory factor, is a pleiotropic cytokine which is expressed by numerous cells including activated T lymphocytes, monocytes, mast cells and neuronal cells. LIF takes part in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and is a key player in immune tolerance at the maternal-fetal interface.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

LIF produced in E.Coli is a single, non-glycosylated polypeptide chain containing 415 amino acids (23-202a.a.) and having a molecular mass of 47.2kDa. LIF is fused to a 236 amino acid His-GST tag at N-terminus & purified by proprietary chromatographic techniques.

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