

Recombinant Human LIF, His-GST

Cat. No. LIF-472H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LIF protein, fused to His GST-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 47.2 kDa (415aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	Leukemia inhibitory factor, also known as LIF, is a pleiotropic cytokine that is expressed by a wide variety of cells including activated T lymphocytes, monocytes, mast cells and neuronal cells. It is involved 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 may also have a role in immune tolerance at the maternal-fetal interface.
Sequences Of Amino Acids	MHHHHHMSPLILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRN KKFELGLEFPNLPYYIDGDVKLTQSMALIRYIADKHNMLG GCPKERAELIS MLEGAVLDIRYGVSR IAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYL NGDHVTHPDFMLYDALDVVL YMDPMCLDAF PKLVCFKKRI EAIPQIDKYL KSSKYIAWPLQGWQATFGGGDHPPKSDLVP RGSMSPLPI TPVNATCAIR HPCHNNLMNQ IRSQLAQLNG SANALFILYYTAQGEPFPNN LDKLCGPNVT DFPPFHANGTEKAKLVELYRIVVYLGTSLG NITRDQKILN PSALSLSKL NATADILRGLLSNVLCRLCSKYHVGHVDVT YGPDTS GKDV FQKKKLG CQL

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	LGKYKQIIAV LAQAF
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	LIF leukemia inhibitory factor (cholinergic differentiation factor) [Homo sapiens]
Synonyms	LIF; leukemia inhibitory factor (cholinergic differentiation factor);CDF; D-FACTOR; Emfilermin; HILDA; MLPLI; D factor; Differentiation- stimulating factor; Leukemia inhibitory factor precursor; Melanoma-derived LPL inhibitor; Cholinergic differentiation factor
Gene ID	3976
mRNA Refseq	NM_002309
Protein Refseq	NP_002300
MIM	159540
UniProt ID	P15018

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Chromosome Location	22q12.2
Pathway	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Function	Cytokine activity, Growth factor activity, Leukemia inhibitory factor receptor binding, Oncostatin-M receptor binding
	