

Leukemia Inhibitory Factor (LIF) Active Protein | LIF active protein

Active Leukemia Inhibitory Factor (LIF)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148161	E Coli	Human	Activity Assay, Cell Culture

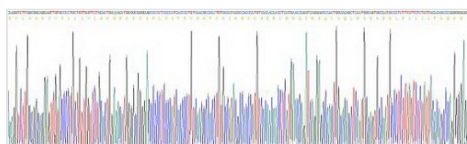
PRODUCT SYNONYMS

Leukemia Inhibitory Factor (LIF); Active Leukemia Inhibitory Factor (LIF); CDF; D-FACTOR; HILDA; MLPLI; Cholinergic Differentiation Factor; Differentiation-Stimulating Factor; Melanoma-Derived LPL Inhibitor; Emfilermin; LIF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	88
Applicable Applications for LIF active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Lys2~Ala201
Isoelectric Point	9.5

IMAGES



Application Data

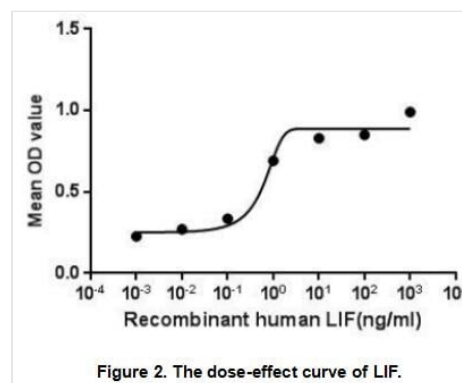
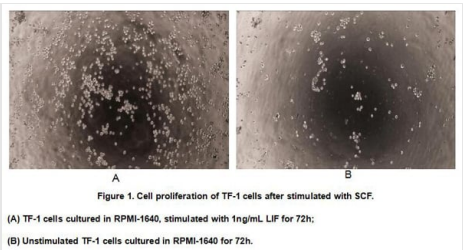
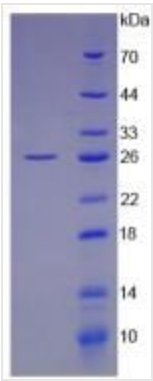


Figure 2. The dose-effect curve of LIF.

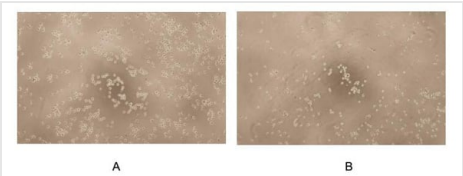
Application Data



Application Data



SDS-PAGE



Activity

Figure. Cell proliferation of TF-1 cells after stimulated with LIF. Leukemia Inhibitory Factor (LIF), is an interleukin 6 class cytokine that affects cell growth by inhibiting differentiation. Other properties attributed to the cytokine include: the growth promotion and cell differentiation of different types of target cells, influence on bone metabolism, cachexia, neural development, embryogenesis and inflammation. p53 regulated LIF has been shown to facilitate implantation in the mouse model and possibly in humans. To test the effect of LIF on cell proliferation, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with 1% serum standard 1640 including various concentrations of recombinant human LIF. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Proliferation of TF-1 cells after incubation with LIF for 72h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant LIF for 72h. The result was shown in Figure 2. It was obvious that LIF significantly increased cell viability of TF-1 cells. (A) TF-1 cells cultured in 1640, stimulated with 0.5ng/mL LIF for 72h; (B) Unstimulated TF-1 cells cultured in 1640 for 72h.

ADDITIONAL INFORMATION

Product Categories/Family for LIF active protein	Cytokine; Tumor immunity; Infection immunity; Neuroscience; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	380418324
NCBI GeneID	3976
NCBI Accession #	NP_001244064.1
NCBI GenBank Nucleotide #	NM_001257135.1
UniProt Accession #	P15018; Q52LZ2; B2RCW7; B5MC23
Molecular Weight	Predicted Molecular Weight: 25.4kDa Accurate Molecular Weight: 26kDa
NCBI Official Full Name	leukemia inhibitory factor isoform 2
NCBI Official Synonym Full Names	LIF, interleukin 6 family cytokine
NCBI Official Symbol	LIF
NCBI Official Synonym Symbols	CDF; DIA; HILDA; MLPLI

NCBI Protein Information	leukemia inhibitory factor
UniProt Protein Name	Leukemia inhibitory factor
UniProt Gene Name	LIF
UniProt Synonym Gene Names	HILDA; LIF; D factor; MLPLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/leukemia-inhibitory-factor-lif/148161>