

LIF active protein

Mouse LIF

CATALOG # AAA79172	HOST E Coli	REACTIVITY Mouse
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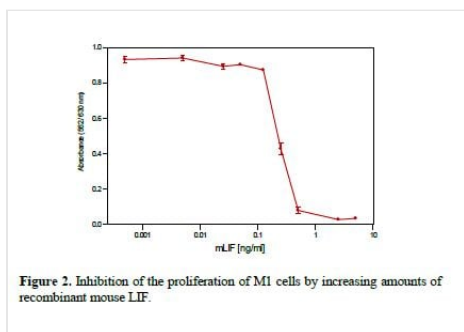
PRODUCT SYNONYMS

LIF; Mouse LIF; Recombinant Mouse Leukemia Inhibitory Factor (LIF); Differentiation-stimulating factor; Melanoma-derived LPL inhibitor; Emfilermin; LIF active protein

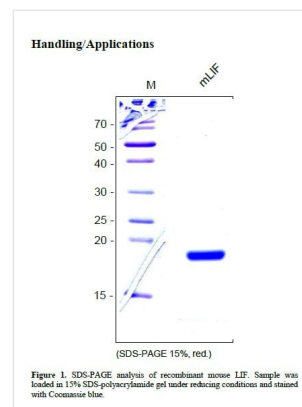
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 98% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:S PLPIT
Sequence Length	180
Endotoxin Level	< 0.1ng per μ g (IEU/ μ g) of rm LIF
Buffer	0.5X PBS
Preparation and Storage	The lyophilized LIF, though stable at room temperature, is best stored desiccated below 0 degree C. Reconstituted LIF should be stored in working aliquots at -20 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for LIF active protein	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. Human LIF is as active on human cells as is it is on mouse cells, though mouse LIF is about 1000 fold less active on human cells, than human LIF. Recombinant mouse LIF produced in E. coli is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 19.86 kDa.
Product Categories/Family for LIF active protein	Cytokines & Growth Factors
References	1. Hirai H et al, Biochem J 438:11-23, 2011 2. Mathieu ME et al, Stem Cell Rev. 8:1-15, 2012 3. Metcalfe SM, Genes Immun 12(3):157-68, 2011 4. Broholm C and Pedersen BK, Exerc Immunol Rev 16:77-85, 2010 5. Aghajanova L, Curr Opin Obstet Gynecol 22(3):213-9, 2010 6. Paiva P et al, Cytokine Growth Factor Rev 20(4):319-28, 2009

NCBI AND UNIPROT INFORMATION

NCBI GI #	88014736
NCBI GeneID	16878
NCBI Accession #	NP_032527
NCBI GenBank Nucleotide #	NM_008501
UniProt Accession #	P09056
Molecular Weight	19.86 kDa
NCBI Official Full Name	leukemia inhibitory factor isoform b
NCBI Official Synonym Full Names	leukemia inhibitory factor
NCBI Official Symbol	Lif
NCBI Protein Information	leukemia inhibitory factor; d factor; differentiation-stimulating factor
UniProt Protein Name	Leukemia inhibitory factor
UniProt Gene Name	Lif
UniProt Synonym Gene Names	LIF; D factor
UniProt Entry Name	LIF_MOUSE

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.