LIF Blocking Peptide

PRODUCT OVERVIEW

Product Name	LIF, Blocking Peptide
Full Product Name	LIF Peptide
Product Gene Name	LIF blocking peptide
Product Synonym Names	CDF; DIA; HILDA; MLPLI; Leukemia inhibitory factor; Differentiation-stimulating factor; LIF; leukemia inhibitory factor
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store LIF peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	LIF peptide (MBS151830) is used for blocking the activity of LIF antibody (MBS151451)
Molecular Weight	9,563 Da
OMIM	159540
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	16 amino acids near the center of human LIF.
Applications Tested/Suitable for LIF blocking peptide	Blocking (BL)
Application Notes for LIF blocking peptide	LIF peptide is used for blocking the activity of LIF antibody.
Related Product Information for LIF blocking peptide	MBS151830 is a blocking peptide targeting LIF. Also known as LIF Peptide.
Other Notes	Small volumes of LIF blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIF. It may not necessarily be applicable to this product.

NCBI GI #	4504991
NCBI GeneID	3976
NCBI Accession #	NP_002300
UniProt Primary Accession #	P15018
UniProt Secondary Accession #	Q52LZ2; B2RCW7; B5MC23
UniProt Related Accession #	P15018
GenBank Nucleotide #	NM_002309.4
NCBI Official Full Name	leukemia inhibitory factor isoform 1

NCBI Official Synonym Full Names	leukemia inhibitory factor
NCBI Official Symbol	LIF
NCBI Official Synonym Symbols	CDF; DIA; HILDA; MLPLI
UniProt Protein Name	Leukemia inhibitory factor
UniProt Synonym Protein Names	Differentiation-stimulating factor; D factor; Melanoma-derived LPL inhibitor; MLPLI; INN: Emfilermin
Protein Family	Leukemia inhibitory factor
UniProt Gene Name	LIF
UniProt Synonym Gene Names	HILDA; LIF; D factor; MLPLI
UniProt Entry Name	LIF_HUMAN
NCBI Protein Information	leukemia inhibitory factor; D factor; human interleukin in DA cells; melanoma-derived LPL inhibitor; differentiation-inducing factor; hepatocyte-stimulating factor III; cholinergic differentiation factor; differentiation-stimulating factor; differentiation inhibitory activity
NCBI Summary for LIF	The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. 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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]
UniProt Comments for LIF	LIF: LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes. Belongs to the LIF/OSM family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 22q12.2 Cellular Component: extracellular space; cytoplasm Molecular Function: growth factor activity; leukemia inhibitory factor receptor binding; cytokine activity; receptor binding Biological Process: transcription from RNA polymerase II promoter; leukemia inhibitory factor signaling pathway; multicellular organismal development; negative regulation of hormone secretion; tyrosine phosphorylation of Stat3 protein; decidualization; positive regulation of tyrosine phosphorylation of Stat3 protein; negative regulation of cell proliferation; positive regulation of MAPKKK cascade; negative regulation of meiosis; positive regulation of cell proliferation; positive regulation of macrophage differentiation; muscle morphogenesis; positive regulation of astrocyte differentiation; positive regulation of peptidyl-serine phosphorylation of STAT protein; stem cell maintenance; positive regulation of peptidyl-serine phosphorylation; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of tyrosine phosphorylation of Stat1 protein; neuron development; blood vessel remodeling; positive regulation of transcription from RNA polymerase II promoter; immune response; alveolus development; embryo implantation
Research Articles on LIF	**1.** an essential function of Foxm1 in the LIF/Stat3-mediated mESC self-renewal and the generation of iPSCs
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