

Mouse LIF ELISA Kit | LIF elisa kit

Mouse LIF PicoKine ELISA Kit

CATALOG #
AAA46758

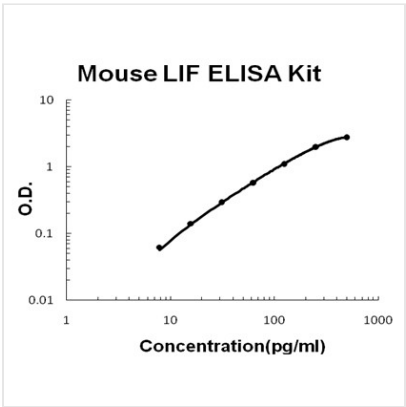
REACTIVITY
Mouse

PRODUCT SYNONYMS

LIF; Mouse LIF PicoKine ELISA Kit; CDF; Cholinergic differentiation factor; D factor; DIA; Differentiation inhibitory activity; Differentiation stimulating factor; Differentiation-stimulating factor; Emfimermin; Hepatocyte stimulating factor III; HILDA; Leukemia inhibitory factor; Melanoma derived LPL inhibitor; Melanoma-derived LPL inhibitor; MLPL I; P15018; LIF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse LIF
Sequence Length	158
Assay Range	7.8pg/ml-500pg/ml
Sensitivity	<10pg/ml
Anticoagulant	heparin or EDTA
TMB incubation time	25-30
Immunogen	E Coli, S24-F203
Sample Data	Concentration(pg/ml): 0 7.8 15.6 31.3 62.5 125 250 500 O.D.: 0.008 0.062 0.141 0.295 0.574 1.100 1.981 2.761
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 12.2 50 197 9.8 44.1 201 Standard Deviation: 0.75 2.15 10.83 0.71 2.60 12.84 CV(%): 6.2 4.3 5.5 7.3 5.9 6.4
Assay Procedure Step 1	Aliquot 0.1ml per well of the 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml mouse LIF standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. We recommend that each mouse LIF standard solution and each sample is measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Mouse LIF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for LIF elisa kit	For quantitative detection of mouse LIF in cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA). Background: Leukemia inhibitory factor, or LIF, is an interleukin 6 class cytokine that affects cell growth by inhibiting differentiation. When LIF levels drop, the cells differentiate. The LIF was mapped gene to 22q11-q12.2 by Southern analysis of a series of mouse/human somatic cell hybrids and by in situ hybridization to the chromosomes of 2 normal males and some individuals with chromosomal rearrangements. The gene maps between the Philadelphia translocation BCR1 and the breakpoint of the translocation in cell line GM2324 at 22q12.2. LIF derives its name from its ability to induce the terminal differentiation of myeloid leukemic cells, thus preventing their continued growth. 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. Principle: Mouse LIF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Rat specific for LIF has been precoated onto 96-well plates. Standards(Expression system for standard: E Coli, Immunogen sequence: S24-F203) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for LIF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substRate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Mouse LIF amount of sample captured in plate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	88014736
NCBI GeneID	16878
NCBI Accession #	NP_001034626.1
NCBI GenBank Nucleotide #	NM_001039537.2
UniProt Accession #	P09056
Molecular Weight	22,287 Da
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
UniProt Protein Name	Leukemia inhibitory factor
UniProt Gene Name	Lif

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/mouse-elisa-kits/lif/46758>