

Bovine Leukemia inhibitory factor (LIF) ELISA Kit

Catalog No: #EK10084



Package Size: #EK10084-1 48T #EK10084-2 96T

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Description

Product Name	Bovine Leukemia inhibitory factor (LIF) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	CDF; DIA; HILDA; D factor cholinergic differentiation factor differentiation inhibitory activity differentiation stimulating factor
Accession No.	Q27956
Uniprot	Q27956
GeneID	280840;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:12.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LIF in samples. An antibody specific for LIF has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLIF present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LIF is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LIF bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Leukemia inhibitory factor, an interleukin 6 class cytokine, is a protein in cells that affects cell growth and development. LIF derives its name from its ability to induce the terminal differentiation of myeloid leukaemic cells. 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.

LIF is normally expressed in the trophectoderm of the developing embryo, with its receptor LIFR expressed throughout the inner cell mass. As embryonic stem cells are derived from the inner cell mass at the blastocyst stage, removing them from the inner cell mass also removes their source of LIF.

Note: This product is for in vitro research use only