Rat leukemia inhibitory factor,LIF ELISA Kit

Product Code	CSB-E07432r
Abbreviation	LIF
Target Name	leukemia inhibitory factor (cholinergic differentiation factor)
Uniprot No.	P17777
Alias	CDF, DIA, HILDA, D factor|cholinergic differentiation factor|differentiation inhibitory activity|differentiation stimulating factor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, bronchoalveolar lavage fluid, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Lif
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat LIF ELISA Kit was designed for the quantitative measurement of Rat LIF protein in serum, plasma, bronchoalveolar lavage fluid, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL .
Target Details	This protein 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.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat LIF in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	89
	Range %	84-95
1:2	Average %	93
	Range %	89-97
1:4	Average %	99
	Range %	93-104
1:8	Average %	90
	Range %	86-98

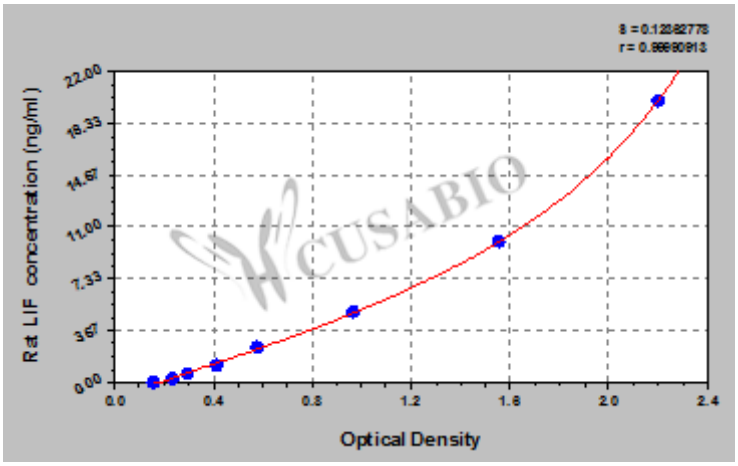
Recovery

The recovery of rat LIF spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	87	82-92
EDTA plasma (n=4)	95	89-99

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.249	2.174	2.212	2.039
10	1.583	1.561	1.572	1.399
5	1.012	0.952	0.982	0.809
2.5	0.599	0.583	0.591	0.418
1.25	0.446	0.416	0.431	0.258
0.625	0.320	0.299	0.310	0.137
0.312	0.258	0.245	0.252	0.079
0	0.177	0.169	0.173	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E07432r.pdf","filename":"MSDS"}}