



Hamster Interleukin-10(IL10) ELISA kit

Product Code	CSB-EL011580HA
Abbreviation	IL10
Target Name	interleukin 10
Alias	CSIF, IL-10, IL10A, MGC126450, MGC126451, TGIF, cytokine synthesis inhibitory factor
Product Type	ELISA Kit
Immunogen Species	Mesocricetus auratus (Golden hamster)
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/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	Immunology
Tag Info	quantitative
Protein Description	Sandwich
Description	This Hamster IL10 ELISA Kit was designed for the quantitative measurement of Hamster IL10 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.
Target Details	This protein is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract.
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 hamster IL10 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 %	101
	Range %	91-105
1:2	Average %	106
	Range %	97-110
1:4	Average %	95
	Range %	87-99
1:8	Average %	93
	Range %	84-97

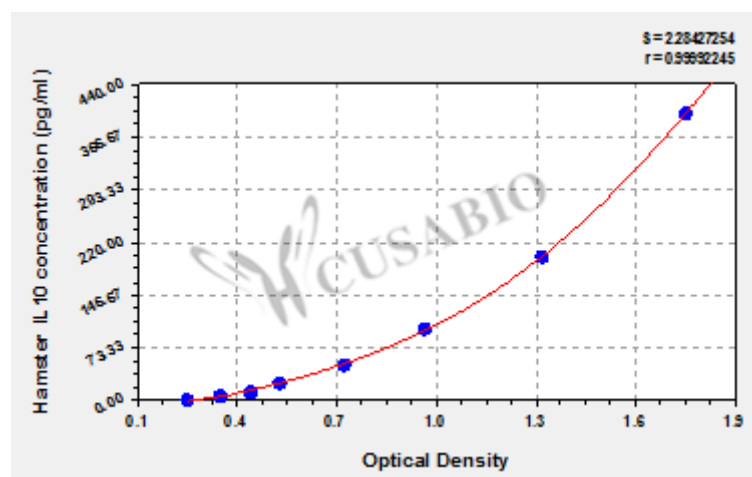
Recovery

The recovery of hamster IL10 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)	93	88-97
EDTA plasma (n=4)	95	90-101

Typical

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



pg/ml	OD1	OD2	Average	Corrected
400	1.748	1.798	1.773	1.559
200	1.302	1.343	1.323	1.109
100	0.939	0.973	0.956	0.742
50	0.710	0.699	0.705	0.491
25	0.488	0.511	0.500	0.286
12.5	0.409	0.417	0.413	0.199
6.25	0.311	0.323	0.317	0.103
0	0.212	0.216	0.214	?

**Msds**

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