



Guinea pig interleukin 2,IL-2 ELISA Kit

Product Code	CSB-E12914Gp
Abbreviation	IL-2
Target Name	interleukin 2,IL-2
Uniprot No.	H0VBY4
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Cavia porcellus (Guinea pig)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 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

The Guinea pig interleukin 2 (IL-2) ELISA Kit is a powerful tool for researchers in the field of immunology. The kit is designed for quantitative measurement of interleukin-2 protein in samples such as serum, plasma, and tissue homogenates of Cavia porcellus (Guinea pig).

The kit offers a broad detection range of 31.25 pg/mL-2000 pg/mL and a high sensitivity of 7.8 pg/mL, enabling accurate and reliable measurement of IL-2 levels in even low-concentration samples. With an assay time of 1-5 hours and a sample volume requirement of only 50-100ul, our kit is efficient and easy to use.

This Guinea pig IL-2 ELISA Kit employs a sandwich assay principle, where the target IL-2 protein is captured by a specific antibody and detected by a second antibody conjugated to a substrate. And the detection wavelength is 450 nm.

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 guinea pig IL-2 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)
	Average %	102
1:1	Range %	98-108
	Average %	94
1:2	Range %	91-98
	Average %	103
1:4	Range %	97-108
	Average %	88
1:8	Range %	80-96

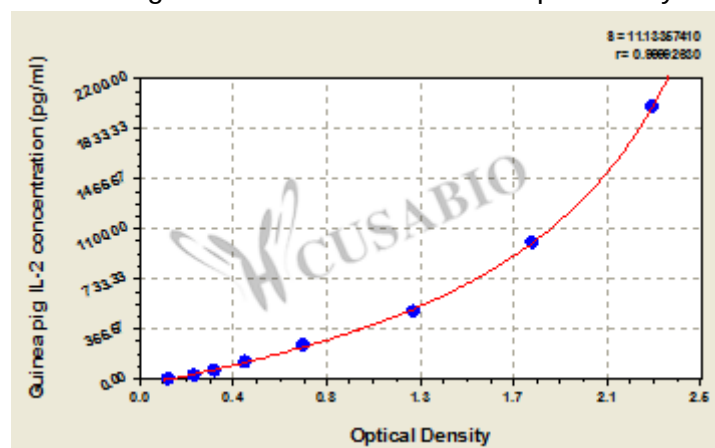
Recovery

The recovery of guinea pig IL-2 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)	94	88-100
EDTA plasma (n=4)	104	96-108

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
2000	2.230	2.351	2.291	2.152
1000	1.713	1.794	1.754	1.615
500	1.214	1.235	1.225	1.086
250	0.743	0.732	0.738	0.599
125	0.495	0.464	0.480	0.341
62.5	0.349	0.338	0.344	0.205
31.25	0.255	0.251	0.253	0.114
0	0.139	0.138	0.139	?

Msds

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