



# Rat Interleukin 1 receptor antagonist, IL-1ra ELISA kit

<b>Product Code</b>	CSB-E10397r
<b>Abbreviation</b>	IL1RN
<b>Target Name</b>	interleukin 1 receptor antagonist
<b>Uniprot No.</b>	P25086
<b>Alias</b>	DIRA, ICIL-1RA, IL-1ra3, IL1F3, IL1RA, IRAP, MGC10430, MVCD4, IL1RN (IL1F3) OTTHUMP00000203730 intracellular IL-1 receptor antagonist type II intracellular interleukin-1 receptor antagonist (icIL-1r
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	125 pg/mL-8000 pg/mL
<b>Sensitivity</b>	31.25 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Others
<b>Gene Names</b>	Il1rn
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat IL1RN ELISA Kit was designed for the quantitative measurement of Rat IL1RN protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 125 pg/mL-8000 pg/mL and the sensitivity is 31.25 pg/mL .
<b>Target Details</b>	This protein is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.



## 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 IL-1ra 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 %	102
	Range %	98-105
1:2	Average %	97
	Range %	92-102
1:4	Average %	96
	Range %	90-101
1:8	Average %	93
	Range %	88-99

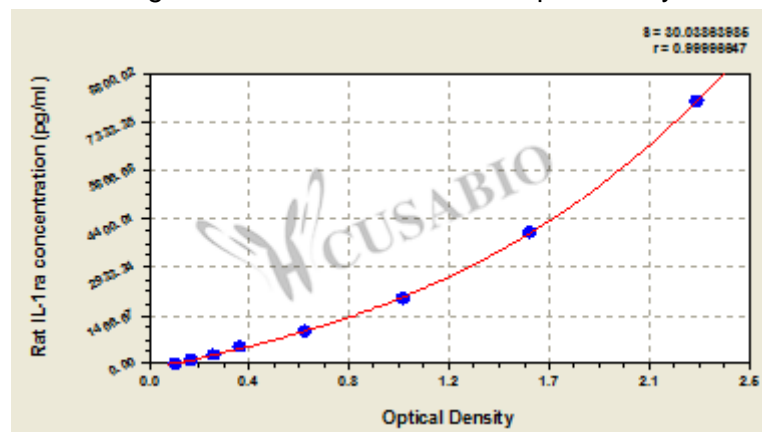
## Recovery

The recovery of rat IL-1ra 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)	97	92-104
EDTA plasma (n=4)	89	82-95

## 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
8000	2.259	2.269	2.264	2.148
4000	1.554	1.597	1.576	1.460
2000	1.040	1.068	1.054	0.938
1000	0.625	0.672	0.649	0.533
500	0.398	0.371	0.385	0.269
250	0.279	0.274	0.277	0.161
125	0.181	0.189	0.185	0.069
0	0.114	0.118	0.116	?

**Msds**

```
{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E10397r.pdf","filename":"MSDS"}}
```