Rat Insulin-like growth factor 2,IGF-2 ELISA Kit

Product Code	CSB-E04585r
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	IGF2
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	insulin-like growth factor 2 (somatomedin A)
Uniprot No.	P01346
Alias	C11orf43, FLJ22066, FLJ44734, INSIGF, pp9974, OTTHUMP00000011018|OTTHUMP00000011157|insulin-like growth factor 2|insulin-like growth factor II|insulin-like growth factor type 2|putative insulin-like
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Carbohydrate metabolism
Sample Types	serum, plasma, tissue homogenates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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	Metabolism
Gene Names	Igf2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat IGF2 ELISA Kit was designed for the quantitative measurement of Rat IGF2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 pg/mL.
Target Details	This gene encodes a member of the insulin family of polypeptide growth factors that is involved in development and growth. It is an imprinted gene and is expressed only from the paternally inherited allele. It is a candidate gene for eating disorders. There is a read-through, INS-IGF2, which aligns to this gene at

the 3 region and to the upstream INS gene at the 5 region. Alternatively spliced transcript variants, encoding either the same or different isoform, have been found for this gene.

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 IGF-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)
1:100	Average %	86
	Range %	83-89
1:200	Average %	99
	Range %	85-104
1:400	Average %	92
	Range %	88-96
1:800	Average %	87
	Range %	85-89

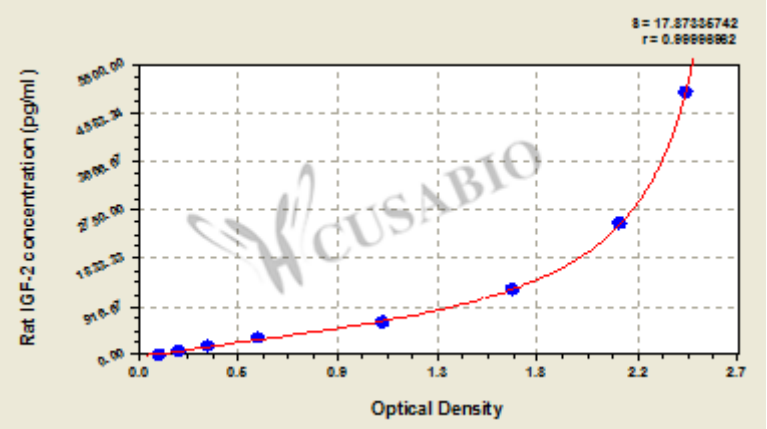
Recovery

The recovery of rat IGF-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)	105	101-109
EDTA plasma (n=4)	97	94-100

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
5000	2.402	2.459	2.431	2.329
2500	2.139	2.145	2.142	2.040
1250	1.674	1.662	1.668	1.566
625	1.085	1.098	1.092	0.990
312	0.538	0.548	0.543	0.441
156	0.314	0.326	0.320	0.218
78	0.196	0.186	0.191	0.089
0	0.101	0.103	0.102	

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