Fish Insulin-like growth factor II(IGF2) ELISA kit

Product Code	CSB-EL011088FI
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.	Q02816
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	Fish
Protein Biological Process 3	Carbohydrate metabolism
Sample Types	serum, plasma
Detection Range	62.5 pg/mL-1000 pg/mL
Sensitivity	31.25 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	Competitive
Description	This Fish IGF2 ELISA Kit was designed for the quantitative measurement of Fish IGF2 protein in serum, plasma. It is a Competitive ELISA kit, its detection range is 62.5 pg/mL-1000 pg/mL and the sensitivity is 31.25 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 fish IGF2 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 %	91
	Range %	87-102
1:200	Average %	95
	Range %	91-99
1:400	Average %	96
	Range %	88-106
1:800	Average %	92
	Range %	88-96

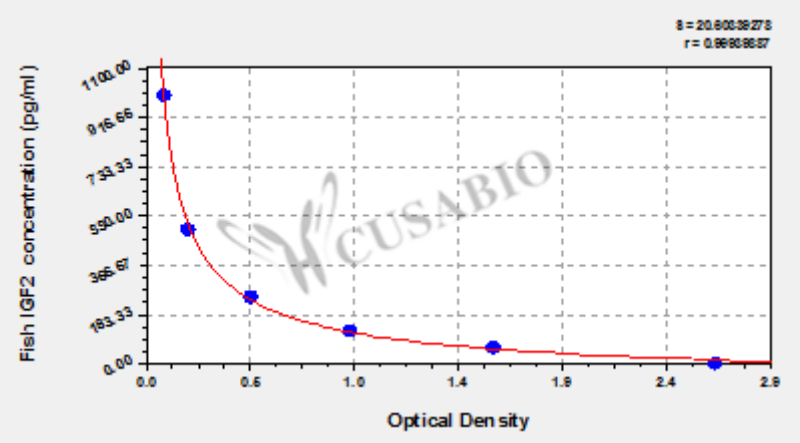
Recovery

The recovery of fish IGF2 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)	96	90-102
EDTA plasma (n=4)	93	85-102

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	?
1000	0.085	0.089	0.087	?
500	0.192	0.205	0.199	?
250	0.485	0.489	0.487	?
125	0.942	0.937	0.940	?
62.5	1.613	1.572	1.593	?
0	2.595	2.624	2.610	?