Human Fibroblast growth factor 18(FGF18) ELISA kit

Product Code	CSB-EL008623HU
Abbreviation	FGF18
Target Name	fibroblast growth factor 18
Uniprot No.	O76093
Alias	FGF-18, ZFGF5
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Signal Transduction
Gene Names	FGF18
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human FGF18 ELISA Kit was designed for the quantitative measurement of Human FGF18 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This protein is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. It has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. Knockout studies of the similar gene in mice implied the role of this protein in regulating proliferation and differentiation of midline cerebellar structures.

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 human FGF18 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 %	99
	Range %	89-107
1:2	Average %	92
	Range %	87-96
1:4	Average %	95
	Range %	90-100
1:8	Average %	98
	Range %	94-103

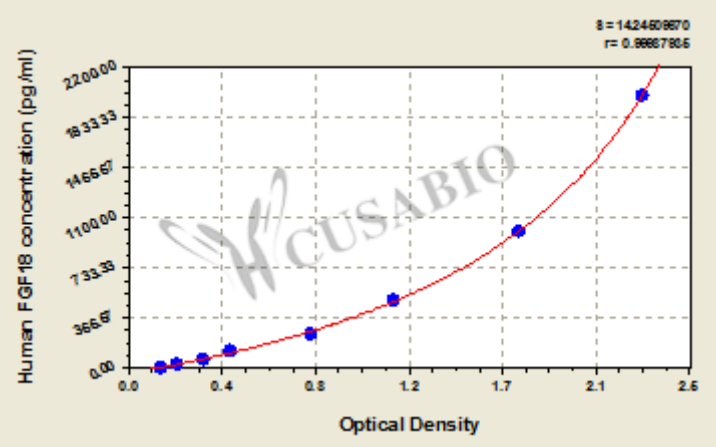
Recovery

The recovery of human FGF18 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)	102	96-108
EDTA plasma (n=4)	96	92-100

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
2000	2.303	2.227	2.265	2.113
1000	1.685	1.765	1.725	1.573
500	1.182	1.163	1.173	1.021
250	0.809	0.815	0.812	0.660
125	0.466	0.454	0.460	0.308
62.5	0.344	0.334	0.339	0.187
31.25	0.220	0.228	0.224	0.072
0	0.152	0.151	0.152	?

Msds

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