Human Nesfatin-1 ELISA Kit

Product Code	CSB-E15050h
Abbreviation	Nesfatin-1
Target Name	Nesfatin-1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, 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	Others
Gene Names	NUCB2
Tag Info	quantitative
Protein Description	Sandwich

Description

This human nesfatin-1 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human nesfatin-1 in different samples, including serum, plasma, or tissue homogenates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of nesfatin-1 bound in the initial step.

Nesfatin-1 is a potent anorexigenic peptide that is processed from the precursor-peptide NEFA/nucleobindin 2 (NUCB2) and is involved in the modulation of homeostatic feeding. In the hypothalamus and brainstem, nesfatin-1 recruits the oxytocin, the melancortin, and other systems to relay its anorexigenic effects. In addition to anorexigenic properties, nesfatin-1 has also been found to perform other important functions, especially associated with energy homeostasis. such as energy expenditure and glucose homeostasis. Nesfatin-1 also has pleiotropic effects on the level of cardiovascular and digestive systems, as well as being implicated in stress response, sleep, and reproduction.

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 Nesfatin-1 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)
1:5	Average %	96
	Range %	80-105
1:10	Average %	99
	Range %	91-111
1:20	Average %	104
	Range %	92-112
1:40	Average %	93
	Range %	86-100

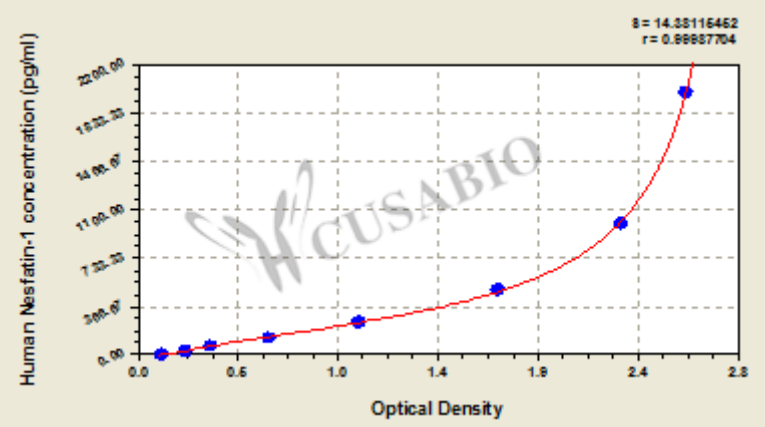
Recovery

The recovery of human Nesfatin-1 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	89-98
EDTA plasma (n=4)	97	90-107

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	2.617	2.557	2.587	2.463
1000	2.205	2.356	2.281	2.157
500	1.636	1.767	1.702	1.578
250	1.043	1.058	1.051	0.927
125	0.609	0.642	0.626	0.502
62.5	0.352	0.346	0.349	0.225
31.25	0.226	0.243	0.235	0.111
0	0.122	0.125	0.124	?

Msds

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