



Pig Brain-derived neurotrophic factor(BDNF)

ELISA kit

Product Code	CSB-EL002655PI
Abbreviation	BDNF
Target Name	brain-derived neurotrophic factor
Uniprot No.	P14082
Alias	MGC34632, neurotrophin
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Sample Types	serum, plasma, tissue homogenates
Detection Range	9.375 ng/mL-600 ng/mL
Sensitivity	2.35 ng/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	Cardiovascular
Gene Names	BDNF
Tag Info	quantitative
Protein Description	Sandwich
Description	This Pig BDNF ELISA Kit was designed for the quantitative measurement of Pig BDNF protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 9.375 ng/mL-600 ng/mL and the sensitivity is 2.35 ng/mL.
Target Details	This protein is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer s and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described 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 pig BDNF 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 %	96
	Range %	91-102
1:2	Average %	102
	Range %	97-107
1:4	Average %	109
	Range %	105-113
1:8	Average %	103
	Range %	96-107

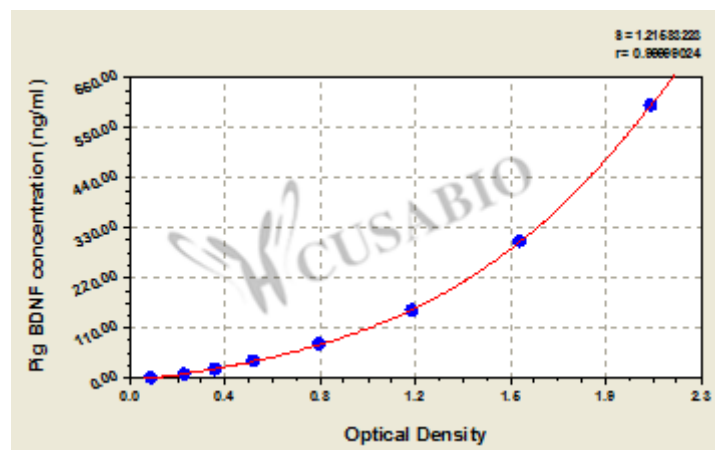
Recovery

The recovery of pig BDNF 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	98-105
EDTA plasma (n=4)	86	93-92

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
600	2.134	2.081	2.108	2.016
300	1.537	1.623	1.580	1.488
150	1.167	1.123	1.145	1.053
75	0.769	0.774	0.772	0.680
37.5	0.513	0.503	0.508	0.416
18.75	0.353	0.344	0.349	0.257
9.375	0.227	0.221	0.224	0.132
0	0.091	0.093	0.092	?

**Msd**

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