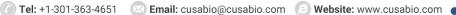


Description





Rat Brain derived neurotrophic facor, BDNF ELISA Kit

Product Code	CSB-E04504r
Abbreviation	BDNF
Target Name	brain-derived neurotrophic factor
Uniprot No.	P23363
Alias	MGC34632, neurotrophin
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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

The Rat Brain-derived neurotrophic factor (BDNF) ELISA Kit is a reliable and accurate tool for the quantification of BDNF in rat serum, plasma, and tissue homogenates. BDNF is a protein that plays a crucial role in the development and maintenance of the nervous system, particularly in the brain. This ELISA kit detects BDNF with high sensitivity, with a detection range of 0.312 ng/mL to 20 ng/mL and a sensitivity of 0.078 ng/mL.

The assay principle is a sandwich measurement, providing quantitative results that can be obtained in as little as 1-5 hours. The kit is optimized for use with a sample volume of 50-100ul, making it a cost-effective and efficient solution for researchers.

This ELISA kit is ideal for researchers investigating cardiovascular diseases, as BDNF has been implicated in the pathophysiology of these conditions. Additionally, our kit has been widely cited in scientific literature, with over 19 publications referencing its use.

CUSABIO TECHNOLOGY LLC









Target Details	cortical ne Expression patients. The biolog	eurons, and is necessary f n of this gene is reduced This gene may play a role	ve growth factor family. It is induced by for survival of striatal neurons in the brain. in both Alzheimer s and Huntington disease in the regulation of stress response and in iple transcript variants encoding distinct his gene.
Product Precision	Three sar to assess Inter-assa	ay Precision (Precision be	thin an assay): CV%<8% Ition were tested twenty times on one plate Itween assays): CV%<10% Ition were tested in twenty assays to
Linearity	concentra	itions of rat BDNF in vario	y, samples were spiked with high ous matrices and diluted with the Sample lues within the dynamic range of the assay. Serum(n=4) 105 100-110 96 90-102

Average %

Average %

Range %

Range %

1:4

1:8

Recovery

The recovery of rat 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.

92

96

87-99

91-104

Sample Type	Average % Recovery	Range
Serum (n=5)	96	90-102
EDTA plasma (n=4)	98	93-104

Typical

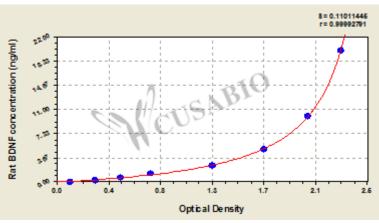
These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.











ng/ml OD1 OD2 Average Corrected

20 2.256 2.299 2.278 2.164 10 2.021 2.013 2.017 1.903 5 1.657 1.674 1.666 1.552 2.5 1.243 1.267 1.255 1.141 1.25 0.751 0.764 0.758 0.644 0.625 0.502 0.529 0.516 0.402 0.312 0.312 0.321 0.317 0.203 0.113 0.115 0.114 ?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E04504r.pdf","filename":"MSDS"}}