

ARG81240 proBDNF ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG81240 proBDNF ELISA Kit is an Enzyme Immunoassay kit for the quantification of proBDNF in Human and rat cell culture supernatants and cell lysates; human serum and plasma (EDTA, citrate) and Rat tissue extracts.
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	ELISA
Specificity	This ELISA kit detects the full length and potentially truncated form of proBDNF. Cross-reactivity mature BDNF (25 ng/mL) is < 0.3% (w/v).
Target Name	proBDNF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	6 pg/ml
Sample Type	Human and rat cell culture supernatants and cell lysates; human serum and plasma (EDTA, citrate) and Rat tissue extracts.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Alternate Names	Brain-derived neurotrophic factor; Abrianeurin; BULN2; ANON2; BDNF

Application Instructions

Assay Time	< 4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	BDNF
Gene Full Name	brain-derived neurotrophic factor
Background	The protein encoded by this gene 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. [provided by RefSeq, Jan 2009]

Function

During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability. [UniProt]

Highlight

Related products:

[BDNF antibodies](#); [BDNF ELISA Kits](#); [BDNF recombinant proteins](#);

Related news:

[The role of HDGF in tumor angiogenesis](#)

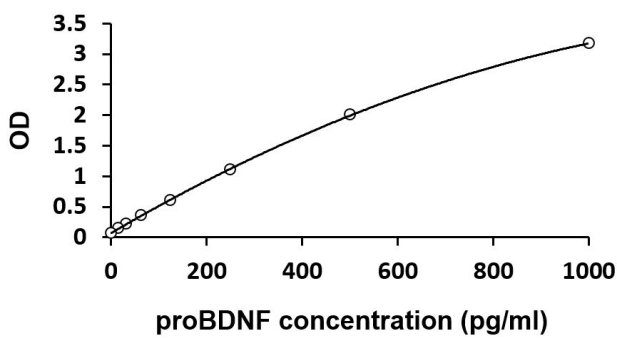
New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

PTM

The propeptide is N-glycosylated and glycosulfated.
Converted into mature BDNF by plasmin (PLG).

Images



ARG81240 proBDNF ELISA Kit standard curve image

ARG81240 proBDNF ELISA Kit results of a typical standard run with optical density reading at 450 nm.