

ARG70141 Human BDNF recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg
Store at: -20°C

Summary

Product Description	E. coli expressed, His-tagged (C-ter) Active Human BDNF recombinant protein
Tested Application	SDS-PAGE
Target Name	BDNF
Species	Human
A.A. Sequence	His132 - Arg250
Expression System	E. coli
Activity	Active
Activity Note	Determined by its ability to induce proliferation in BaF3 cells transfected with TrkB. The ED50 for this effect is < 2 ng/mL.
Alternate Names	Brain-derived neurotrophic factor; Abreineurin; BULN2; ANON2; BDNF

Properties

Form	Powder
Purification Note	Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Buffer	20 mM sodium citrate and 0.2 M NaCl (pH 3.5)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
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](#)

PTM

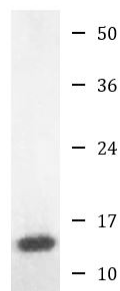
The propeptide is N-glycosylated and glycosulfated.

Converted into mature BDNF by plasmin (PLG). [UniProt]

Cellular Localization

Secreted. [UniProt]

Images



Human BDNF
recombinant protein

ARG70141 Human BDNF recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70141 Human BDNF recombinant protein (Active) (His-tagged, C-ter).