

## Product datasheet

### Recombinant Human BDNF protein ab151895

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#### Description

<b>Product name</b>	Recombinant Human BDNF protein
<b>Purity</b>	> 95 % SDS-PAGE. ab151895 is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. Lyophilized from a 0.2 µM filtered solution.
<b>Endotoxin level</b>	< 0.100 Eu/µg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P23560</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVT VLEKVPVSKGQL KQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVR ALTMDSKKRIG WRFIRIDTSCVCTLTIKRGR
<b>Predicted molecular weight</b>	27 kDa
<b>Amino acids</b>	129 to 247

#### Specifications

Our **Abpromise guarantee** covers the use of **ab151895** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	HPLC SDS-PAGE
<b>Form</b>	Lyophilized

#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -80°C. pH: 7.20 Constituents: 98% Phosphate Buffer, 1.46% Sodium chloride
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<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>General Info</b>	
<b>Function</b>	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.
<b>Tissue specificity</b>	Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta.
<b>Involvement in disease</b>	Bulimia nervosa 2 Congenital central hypoventilation syndrome
<b>Sequence similarities</b>	Belongs to the NGF-beta family.
<b>Post-translational modifications</b>	The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).
<b>Cellular localization</b>	Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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