

Product datasheet

Recombinant human BDNF protein (Animal Free) ab217473

Description

Product name	Recombinant human BDNF protein (Animal Free)
Biological activity	Determined by its ability to bind recombinant human TrkB Fc Chimera in a functional ELISA.
Purity	> 98 % SDS-PAGE. > 98 % HPLC.
Expression system	Escherichia coli
Accession	<u>P23560</u>
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Human
Sequence	MHSDPARRGE LSVCDISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTKRGR
Predicted molecular weight	27 kDa
Amino acids	129 to 247
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included. A homodimer of two 120 amino acid subunits linked by strong non-covalent interactions.

Specifications

Our **Abpromise guarantee** covers the use of **ab217473** in the following tested applications.

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

Applications	SDS-PAGE HPLC Functional Studies
Form	Lyophilized
Additional notes	Manufactured using all Animal-Free reagents.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	For lot specific reconstitution information please contact our Scientific Support Team.

General Info

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.
Tissue specificity	Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta.
Involvement in disease	Bulimia nervosa 2 Congenital central hypoventilation syndrome
Sequence similarities	Belongs to the NGF-beta family.
Post-translational modifications	The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).
Cellular localization	Secreted.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
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