

Brain-Derived Neurotrophic Factor Active Protein | BDNF active protein

Recombinant Human Brain-Derived Neurotrophic Factor

CATALOG # AAA38107	HOST E Coli
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PRODUCT SYNONYMS

Brain-Derived Neurotrophic Factor; Recombinant Human Brain-Derived Neurotrophic Factor; BDNF Human; Brain-Derived Neurotrophic Factor Human Recombinant; BDNF; MGC34632; BDNF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	BDNF is greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized WITHOUT ANY ADDITIVES. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MHSDPARRGE LSVCDISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR
Sequence Length	247
Solubility	It is recommended to reconstitute the lyophilized BDNF in sterile 18M-cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	BDNF quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of Brain-derived Neurotrophic Factor as a Reference Standard.
Biological Activity	The ED ₅₀ , as determined by the dose-dependent induction of C6 cells proliferation, is 1.3-2ug/ml.
Preparation and Storage	Lyophilized BDNF although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BDNF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BDNF active protein	Description: Brain-derived Neurotrophic Factor Human Recombinant produced in E.Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 119 amino acids (and an N-terminal Met) and having a total molecular mass of 27kDa. BDNF Human Recombinant is purified by proprietary chromatographic techniques.
Product Categories/Family for BDNF active protein	Cytokines and Growth Factors ; Neurotrophins

NCBI AND UNIPROT INFORMATION

NCBI GI #	219842288
NCBI GeneID	627
NCBI Accession #	NP_001137277.1
NCBI GenBank Nucleotide #	NM_001143805.1

UniProt Accession #	P23560; Q598Q1; Q6DN19; Q6YNR2; Q6YNR3; Q9BYY7; Q9UC24; A7LA85; A7LA92; D3DQZ2
NCBI Official Full Name	brain-derived neurotrophic factor isoform a preproprotein
NCBI Official Synonym Full Names	brain-derived neurotrophic factor
NCBI Official Symbol	BDNF
NCBI Official Synonym Symbols	ANON2; BULN2
NCBI Protein Information	brain-derived neurotrophic factor; abrineurin; neurotrophin
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Gene Name	BDNF
UniProt Synonym Gene Names	BDNF
UniProt Entry Name	BDNF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-bdnf-active-protein/brain-derived-neurotrophic-factor/38107>