

## 32-1072: BDNF Recombinant Protein

**Alternative Name :** Brain-Derived Neurotrophic Factor, BDNF, MGC34632.

### Description

Source : Escherichia Coli. Brain-Derived Neurotrophic Factor Human Recombinant produced in E.Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 119 amino acids and having a total molecular mass of 26,984 Dalton. BDNF Human Recombinant is purified by proprietary chromatographic techniques. BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. BDNF is a 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.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 10 µg   |
| <b>Purification :</b>      | BDNF is greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.   |
| <b>Content :</b>           | The protein was lyophilized without any additives.  |
| <b>Storage condition :</b> | Lyophilized BDNF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BDNF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Amino Acid :</b>        | MHSDPARRGE LSVCDISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR.   |

### Application Note

It is recommended to reconstitute the lyophilized BDNF in sterile 18M-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, as determined by the dose-dependent induction of C6 cells proliferation, is 1.3-2 µg/ml.

