GIBCO BRL

LIFE TECHNOLOGIES™

Recombinant Human Brain-Derived Neurotrophic Factor (BDNF)

Cat. No.: 10908-010 **Size: 5 µg**
Store at -20°C.

Description:

Recombinant Human Brain-Derived Neurotrophic Factor, from *E. coli*, is a 27-kDa-dimer, formed by two identical 119-amino acid subunits, which is held together by strong hydrophobic interactions. It is a potent neurotrophic factor which supports the growth and survivability of nerve and/or glial cells (1-4). For most *in vitro* applications, BDNF exerts its biological activity in the concentration range of 0.1 to 1 ng/ml. Recombinant Human BDNF is provided as a lyophilized protein obtained from a membrane-filtered (0.22 µm) solution of distilled water with no additives.

Directions for Use:

1. Reconstitute in distilled water or aqueous buffers to a concentration of 100 ng/µl. **Note: Do not store in glass;** store in polypropylene vial**.** Store at -20°C reconstituted for up to six months. Avoid repeated freeze-thaw cycles.

2. The reconstituted solution can be further diluted in distilled water or aqueous buffers to working concentration. **Do not store dilute solutions.**

Note: To avoid adsorptive loss, dilute solutions should be supplemented with Bovine Serum Albumin (BSA) at a concentration of not less than 0.1%.

Quality Control:

- Purity: ≥96% (by SDS-PAGE)
- Endotoxin: ≤ 0.1 ng/µg of BDNF
- Biological Activity: ED_{50}≤50 ng/ml (detemined by dose-dependent induction of choline acetyl transferase activity in primary septal cell cultures)

Doc. Rev.: 031000

References:
1 Barde, Y-A, *et al*. (1982) *EMBO J 1*: 549.
2. Martin-Zanca, D. *et al*. (1986) *Nature. 319*: 743.
3. Kalcheim, C. *et al*. (1992) *PNAS 89*: 1661.
4. Snider, W.D. (1994) *Cell 77*: 627.

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