

## 32-20035: Animal-Free Recombinant Human/Murine/Rat BDNF(Discontinued)

**Reactivity :** chicken, frog, Guinea Pig, Hamster, Human , monkey, mouse, rat

**Alternative Name :** Brain Derived Neurotrophic Factor, Abrineurin

### Description

**Source:** E.coli BDNF is a member of the NGF family of neurotrophic growth factors. Like other members of this family, BDNF supports neuron proliferation and survival. BDNF can bind to a low affinity cell surface receptor called LNGFR, which also binds other neurotrophins such as NGF, NT-3 and NT-4. However, BDNF mediates its neurotrophic properties by signaling through a high affinity cell surface receptor called gp145/trkB. BDNF is expressed as the C-terminal portion of a 247 amino acid polypeptide precursor, which also contains a signal sequence of 18 amino acid residues and a propeptide of 110 amino acid residues. Recombinant Human/Murine/Rat BDNF is a 27.0 kDa homodimer of two 120 amino acid subunits linked by strong non-covalent interactions.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MHS DPARRGE LSVCD SISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN  
PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR

### Application Note

Determined by its ability to stimulate the proliferation of rat C6 cells. The expected  $ED_{50}$  for this effect is 0.5-1.0 µg/ml.