

## Recombinant Human BDNF Protein

**Cat. Number:** bs-2291P

**Quantity size:** 100µg/500µg

**Host:** *E.coli*

**Range:** Human BDNF 129-247/247 (N-6x His)

**Format:** Liquid.

**Concentration:** 1mg/ml

**Buffer:** 0.01M TBS(pH7.4)

**Purity:** ≥95%(SDS-PAGE)

**MW:** 13kD

**Background:** Neurotrophins function to regulate naturally occurring cell death of neurons during development. The prototype neurotrophin is nerve growth factor (NGF), originally discovered in the 1950s as a soluble peptide promoting the survival of, and neurite outgrowth from, sympathetic ganglia. More recently, three additional structurally homologous neurotrophic factors have been identified. These include brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and neurotrophin-4 (NT-4), also designated NT-5. These various neurotrophins stimulate the in vitro survival of distinct but partially overlapping populations of neurons. The Trk A receptor is the preferential receptor for NGF, but also binds NT-3 and NT-4. The Trk B receptor binds equally well to both BDNF and NT-4 and to a lesser extent NT-3, while the Trk C receptor only binds NT-3. BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. Belongs to the NGF-beta family.

**Storage:** Store at -20℃ (Avoid repeated freeze/thaw cycles).

**Important Note:** This product as supplied is intended for research or further manufacturing use only