

## Brain-derived Neurotrophic Factor (BDNF), Human

**Cat.no.** PK0232

**Product size:** 5ug 25ug 1mg

**Source:** CHO

**Species:** Human

**Biological Activity:** ED50<4µg/ml, measured in a bioassay using C6 cells.

**Molecular Weight:** 12-14kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human BDNF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human BDNF should be stable up to 1 week at 4°C or up to 2 months at -20°C.

**Description:** BDNF, also known as brain-derived neurotrophic factor and abrineurin, is a neurotrophin belonging to the NGF-beta family. It is expressed highly in the brain, and moderately in the heart, lung, skeletal muscle and placenta. BDNF signals through its high affinity receptor gp145/trkB to exert neurotrophic properties. It has been shown to be involved in the survival and differentiation of both the central and peripheral nervous system. Specifically, BDNF regulates synaptic transmission, axonal growth and path-finding, as well as dendritic growth and morphology.

**Amino Acid Sequence:**

00001 HSDPARRGEL SVCDSISEWV TAADKKTAVD MSGGTVTVLE

00041 KVPVSKGQLK QYFYETKCNP MGYTKEGCRG IDKRHWNSQC

00081 RTTQSYVRAL TMDSKKRIGW RFIRIDTSCV CTLTIKRGR

**Synonyms:** Brain-derived neurotrophic factor, BDNF, Abrineurin

**Note:** For research use only, not for use in diagnostic procedure.