



Recombinant Protein Technical Manual

**Recombinant Human/Mouse/Rat BDNF Protein
(Active)**
RPES0247

Product Data:

Product SKU: RPES0247

Size: 10µg

Species: Human/Mouse/Rat

Expression host: E. coli

Uniprot: P23560

Protein Information:

Molecular Mass: 13 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity: Immobilized Human BDNF at 2ug/ml(100 µl/well) can bind Human TrkB-His(Cat: PKSH033579). The ED50 of Human BDNF is 2.82 ug/ml .

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 250mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Brain-Derived Neurotrophic Factor; BDNF; Abrineurin

Immunogen Information:

Sequence: His129-Arg247

Background:

Brain-Derived Neurotrophic Factor (BDNF) is a member of the neurotrophin family. Along with other structurally related neurotrophic factors NGF, NT-3 and NT-4, BDNF binds with high affinity to the TrkB kinase receptor. It also binds with the LNGFR (for low-affinity nerve growth factor receptor, also known as p75). BDNF promotes the survival, growth and differentiation of neurons. It serves as a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. BDNF expression is altered in neurodegenerative disorders such as Parkinson's and Alzheimer's disease.