



Recombinant Protein Technical Manual

Recombinant Human BDNF Protein (with pro peptide)(Active)
RPES0401

Product Data:

Product SKU: RPES0401

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P23560

Protein Information:

Molecular Mass: 25.9 kDa

AP Molecular Mass: 28 kDa

Tag:

Bio-activity: Immobilized Human pro-BDNF at 2ug/ml(100 µl/well) can bind Human TrkB-His(Cat: PKSH033579). The ED50 of Human pro-BDNF is 1.4 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: Ala19-Arg247(R125A,R127A,R128A)

Background:

The precursor form of Brain-Derived Neurotrophic Factor (pro-BDNF) interacts preferentially with the pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin and induces neuronal apoptosis, whereas mature BDNF selectively binds with high affinity to the TrkB kinase receptor and promotes the survival, growth and differentiation of neurons. As proneurotrophins and mature neurotrophins elicit opposite biological effects, Pro-BDNF cleavage in the neuronal system is regulated in a specific and cell-context dependent manner. Pro-BDNF plays important role in negative regulation of neurotrophic actions in the brain.