### Product Insert

**AimPlex™ Analyte Kit**

**S4P9 - Human BDNF (96 Tests)**

PN: B111362

**COMPONENTS**

45x Ab-conjugated beads (S4P9 - human BDNF ab-bead).
PN: B111362A. One vial containing 100 µL of anti-human BDNF conjugated to AimPlex Bead S4P9.

25x Biotin-detection Ab (human BDNF Biotin-dAb).
PN: B111362B. One vial containing 100 µL of biotinylated anti-human BDNF.

PN: HG4009A. One vial containing lyophilized recombinant human BDNF, beta-NGF, EGF, FGF basic, HGF, OPG, OPN, PDGF-AB and VEGF-C.

Note: If multiple analyte kits on the above target list are ordered as a panel, only one vial of standard mix is supplied for those analyte kits.

**STORAGE:** 2-8°C in the dark.

**IMPORTANT:** Sodium azide forms explosive compounds with heavy metals. These products contain <0.05% (w/w) azide which with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock sensitive compounds. Dispose in accordance with regulations from your institute.

**APPLICATION:** Optimal antibody pair and antigen standard for assaying human BDNF. Can be multiplexed with other analytes in Human Group 4. To be used in conjunction with the AimPlex NR Basic Kit (PN: P100001) and a diluent kit. Refer to the AimPlex Multiplex Immunoassay User Manual and kit inserts for the assay procedure.

**For Research Use Only. Not for use in diagnostic procedures.**
Assay Specifications:

Sample types: cell culture supernatant, serum, plasma, bodily fluid and tissue/cell lysate
Sensitivity (LOD): < 5 pg/mL
Quantitation range:
  LLOQ: < 10 pg/mL
  ULOQ: > 5,000 pg/mL
Standard dose recovery: 70-130%
Intra-assay CV: < 10%
Inter-assay CV: < 20%
Cross-reactivity of analytes in Human Group 4: negligible
Sample volume: 15 µL/test

Description:

Brain-derived neurotrophic factor (BDNF) is a member of the neurotrophin family of growth factors, which are related to the canonical Nerve Growth Factor. Neurotrophic factors are found in the brain and the periphery. BDNF acts on certain neurons of the central nervous system and the peripheral nervous system, helping to support the survival of existing neurons, and encourage the growth and differentiation of new neurons and synapses. In the brain, it is active in the hippocampus, cortex, and basal forebrain—areas vital to learning, memory, and higher thinking. It is also expressed in the retina, motor neurons, the kidneys, saliva, and the prostate. BDNF itself is important for long-term memory. Neurotrophins are proteins that help to stimulate and control neurogenesis, BDNF being one of the most active. Diseases associated with BDNF include bulimia nervosa, age of onset of weight loss in and anorexia nervosa

References:


Please contact Customer Service at 1-866-618-8932 with any questions or comments.

Thank you for your business!