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BDNF
Recombinant Human Brain-Derived Neurotrophic Factor, Animal Free

Catalog No.	CRB600B-AF	**Quantity:**	10 µg
	CRB600C-AF		1.0 mg
	CRB600D-AF		100 µg

Alternate Names: BDNF, Abrineurin, ANON2, BULN2

Description: Brain Derived Neurotrophic Factor, or BDNF, is a nerve growth factor that supports neuron growth and survival. BDNF shares identical domains with two other neurotrophic factors known as, β-NGF and NT-3 (neurotrophin-3). BDNF binds with low affinity to a receptor known as LNGFR, which also binds NGF and NT-3, but mediates survival function by signaling through a high affinity receptor known as gp145/TrkB. Human, mouse, rat and pig BDNF are all cross-reactive.

Gene ID: 627

UniProt ID: P23560

Source: *E. coli*
Manufactured in an Animal-Free facility, without Animal-Derived materials.

Molecular Weight: Homodimer (non-covalent), 13.6/27.3 kDa (120/240 aa)

Formulation: Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: > 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 0.1 EU/µg by kinetic LAL

Biological Activity: $ED_{50} \leq 40$ ng/ml, determined by the dose dependent proliferation of a neuroblastoma cell line stably expressing TrkB (BR6)

Specific Activity: $\geq 2.5 \times 10^4$ units/mg

Amino Acid Sequence: MHSDPARRGE LSVCDSISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

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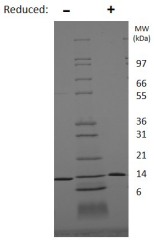

Human BDNF Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human BDNF is a non-covalently linked homodimer and has a predicted MW of 27.3 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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