CDNF
Recombinant Human Cerebral Dopamine Neurotrophic Factor

Catalog No.	CRH017A	**Quantity:**	5 µg
	CRH017B		25 µg
	CRH017C		1 mg

Alternate Names: ARMETL1

Description: Cerebral dopamine neurotrophic factor (CDNF), also known as ARMET-like protein 1, is encoded by the CDNF gene in humans and is widely expressed in neuronal and non-neuronal tissues. The CDNF is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). Furthermore, it also prevents the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. By research, CDNF might be beneficial for the treatment of Parkinson's disease. Recombinant human CDNF contains 162 amino acid residues and it shares 81 % and 84 % a.a. sequence identity with murine and rat CDNF.

Recombinant Human CDNF is a single non-glycosylated polypeptide chain containing 161 amino acids.

Gene ID: 441549

Source: *E.coli*

Molecular Weight: 18.3 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB + 150 mM NaCl, pH 6.4.

Purity: >96% by SDS-PAGE and HPLC analyses.

Endotoxin Level: <1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using rat C6 cells is less than 25 µg/ml.

Specific Activity: > 40 IU/mg

Amino Acid Sequence: QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYYLG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLDSQICEL KYEKTLDLAS VDLRKMRVAE LKQILHSWGE ECRACAEKTD YVNLIQELAP KYAATHPKTE L

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

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