

## 32-1108: rCDNF Recombinant Protein

**Alternative Name :** Cerebral dopamine neurotrophic factor, ARMET-like protein 1, Arginine-rich protein mutated in early stage tumors-like 1, Conserved dopamine neurotrophic factor, Cdnf, Armetl1.

### Description

Source : Escherichia Coli. CDNF Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 163 amino acids and having a molecular mass of 18.8kDa. The CDNF is purified by proprietary chromatographic techniques. CDNF is a member of the ARMET family and acts as a trophic factor for dopamine neurons. CDNF inhibits the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. When CDNF controlled after 6-OHDA-lesioning, it reestablishes the dopaminergic function and inhibits the degeneration of dopaminergic neurons in substantia nigra. CDNF is universally expressed in neuronal and non-neuronal tissues. The highest levels in the brain are found in the optic nerve and corpus callosum.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  
**Content :** CDNF protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.  
**Storage condition :** Lyophilized CDNF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CDNF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.  
**Amino Acid :** QGLEAGVRSR ADCEVCKEFL NRFYNSLLTR GIDFSVDIT EELISFCADT KGKENRLCY L GATKDSATK ILGEVTRPMS VHMPTVKICE KLKMDSQIC ELKYEKLDL ESVDLWKMRV AELKQILHSW GEECRACAEK HDYVNLIEL APKYVETRPQ TEL.

### Application Note

It is recommended to reconstitute the lyophilized CDNF in sterile 18M-cm H<sub>2</sub>O not less than 100 Å µg/ml, which can then be further diluted to other aqueous solutions. CDNF Rat is able to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons when immobilized at 5-25 Å µg/mL on a nitrocellulose-coated microplate.

