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32-1106: CDNF Recombinant Protein

Alternative Name : Cerebral dopamine neurotrophic factor,arginine-rich,mutated in early stage tumors-like 1,Conserved dopamine neurotrophic factor,ARMET-like protein 1,ARMETL1.

Description

Source : Escherichia Coli. CDNF Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18.5kDa.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 96.0% 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 :	QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYYLG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLDSQICEL KYEKTLDLAS VDLRKMRVAE LKQILHSWGE ECRACAEKTD YVNLIQELAP KYAATHPKTE L

Application Note

It is recommended to reconstitute the lyophilized CDNF in sterile 18M-cm H2O not less than 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by its ability to stimulate the proliferation of rat C6 cells is 15-25ÃÂµg/ml, corresponding to a specific activity of 40-67units/mg.