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DATA SHEET

Cerebral Dopamine Neurotrophic Factor Mouse Recombinant

Item Number	rAP-2661
Synonyms	Cerebral dopamine neurotrophic factor, ARMET-like protein 1, Conserved dopamine neurotrophic factor, Cdnf, Armetl1, 9330140G23.
Description	CDNF Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 163 amino acids and having a molecular mass of 18.5kDa.The CDNF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q8CC36
Amino Acid Sequence	QGLEAGVGPR ADCEVCKEFL DRFYNSLLSR GIDFSADTIE KELLNFCSDA KGKENRLCYY LGATTDAATK ILGEVTRPMS VHIPAVKICE KLKKMDSQIC ELKYGKKLDL ASVDLWKMRV AELKQILQRW GEECRACAEK SDYVNLIREL APKYVEIYPQ TEL.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	CDNF protein was lyophilized from a 0.2μm filtered concentrated solution in 1xPBS, pH 7.4. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized CDNF in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	CDNF Mouse is able to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons when immobilized at 5-30 μg/mL on a nitrocellulose-coated microplate.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only