
Product Data Sheet

Product Name: CDNF Mouse
 Cat. No.: GP20131
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Cerebral dopamine neurotrophic factor; ARMET-like protein 1; Conserved dopamine neurotrophic factor; Cdnf; Armet1; 9330140G23.		
Amino Acid Sequence	QGLEAGVGPR ADCEVCKEFL DRFYNSLLSR GIDFSADTIE KELLNFCSDA KGKENRLCYY LGATTTAATK ILGEVTRPMS VHIPAVKICE KLKMDSQIC ELKYGKKLDL ASVDLWKM RV AELKQILQRW GEECRACA EK SDYVNLIREL APKYVEIYPQ TEL.		
Solubility	It is recommended to reconstitute the lyophilized CDNF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	CDNF protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.		

Introduction

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.

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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