
Product Data Sheet

Product Name: CDNF Rat
 Cat. No.: GP20132
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-----------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| Synonyms | Cerebral neurotrophic factor; ARMET-like protein 1; Arginine-rich protein mutated in early stage tumors-like 1; Conserved neurotrophic factor; Cdnf; Armetl1. | | |
| Amino Acid Sequence | QGLEAGVRSR ADCEVCKEFL NRFYNSLLTR GIDFSVDTIE EELISFCADT KGKENRLCY Y LGATKDSATK ILGEVTRPMS VHMPTVKICE KKKMDSQIC ELKYEKKLDL ESDLWKMRV AELKQILHSW GEECRACA EK HDYVNLIKEL APKYVETRPQ 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 neurons. CDNF inhibits the 6-hydroxy (6-OHDA)-induced degeneration of neurons. When CDNF controlled after 6-OHDA-lesioning, it reestablishes the function and inhibits the degeneration of 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 Rat is able to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons when immobilized at 5-25 µg/mL on a nitrocellulose-coated microplate.

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

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Stability

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 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.

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