

CDNF Mouse

Cerebral Dopamine Neurotrophic Factor Mouse Recombinant
NTR0011

Product Overview

Name CDNF Mouse

Description

Cerebral Dopamine Neurotrophic Factor Mouse Recombinant

Accession (Primary) [Q8CC36](#)

Synonyms

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

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

CDNF protein was lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4.

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.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

QGLEAGVRSR ADCEVCKEFL NRFYNLLTR GIDFSVDTIE EELISFCADT KGKENRLCYY LGATKDSATK
ILGEVTRPMS VHMPVKICE KLKKMDSQIC ELKYEKLDL ESVDLWKMRV AELKQILHSW GEECRACA EK
HDYVNLIKEL APKYVETRPQ TEL.

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.

Solubility

It is recommended to reconstitute the lyophilized CDFN in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

CDNF Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([Q8CC36](#))