9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CDNF Rat

CDNF Rat Recombinant
NTR0012

Product Overview

Name	CDNF Rat
Description	
CDNF Rat Recombinant	
Accession (Primary)	P0C5I0
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 NRFYNSLLTR GIDFSVDTIE EELISFCADT KGKENRLCYY LGATKDSATK ILGEVTRPMS VHMPTVKICE KLKKMDSQIC ELKYEKKLDL ESVDLWKMRV AELKQILHSW GEECRACAEK HDYVNLIKEL APKYVETRPQ TEL.	

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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 CDNF in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (P0C5I0)