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Datasheet for ABIN7536388 CDNF Protein (His tag)

Overview

Quantity:	100 µg
Target:	CDNF
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDNF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cerebral dopamine neurotrophic factor/CDNF Protein
Sequence:	QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYLLG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLDSQICEL KYEKTLDLAS VDLRKMRAE LKQILHSWGE ECRACAEKTD YVNLIQELAP KYAATHPKTE L
Specificity:	Gln27-Leu187
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.001EU/µg

Target Details

Target:	CDNF
Alternative Name:	Cerebral dopamine neurotrophic factor/CDNF (CDNF Products)

Target Details

Background: Description: Cerebral Dopamine Neurotrophic Factor (CDNF), also known as ARMETL1 (ARMET-like protein 1), is a secreted protein with eight conserved cysteine residues, predicting a unique protein fold and defining a new, evolutionarily conserved protein family. CDNF is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). CDNF/ARMETL1 is a evolutionary conserved protein which can protect and restore the function of dopaminergic neurons in the rat model of Parkinson's disease, suggesting that CDNF might be beneficial for the treatment of Parkinson's disease. CDNF is widely expressed in neurons in several brain regions including cerebral cortex, hippocampus, substantia nigra, striatum and cerebellum. Human CDNF is glycosylated and secreted from transiently transfected cells. CDNF promotes the survival, growth, and function of dopamine-specific neurons and is expressed in brain regions that undergo cocaine-induced neuroplasticity.

Name: ARMETL1,Cerebral dopamine neurotrophic factor,CDNF

Gene ID: 441549

UniProt: [Q49AH0](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Concentration: 1.26 mg/mL

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
