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## Datasheet for ABIN1405917 CDNF Protein

### Overview

Quantity:	10 µg
Target:	CDNF
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Western Blotting (WB), SDS-PAGE (SDS), Cell Culture (CC), In vivo Studies (in vivo)

### Product Details

Characteristics:	<p>Biological properties: Protein is biologically active. Suitable for cell culture and in vivo testing.</p> <p>Biological activity of human CDFN was tested in rat 6-OHDA model of Parkinson's disease and shown to be both neuroprotective and neurorestorative (for methods see: Lindholm et al. 2007, Voutilainen et al. 2011)</p>
Purification:	<p>Purified by ion-exchange chromatography and gel-filtration from serum-free CHO growth media.</p> <p>Protein is sterile-filtrated through 0.22 µg filter.</p> <p>Purified human CDFN is characterized as homogenous material by mass-spectroscopy.</p>
Endotoxin Level:	Less than 1EU/µg of protein as determined by LAL method

### Target Details

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## Target Details

Alternative Name:	CDNF ( <a href="#">CDNF Products</a> )
Background:	CDNF is a trophic factor for midbrain dopamine neurons in vivo. It prevents the 6-OHDA- (Lindholm et al. 20007, Voutilainen et al., 2011) and MPTP-induced degeneration (Airavaara et al., 2012) of dopamine neurons in rodent models of Parkinson's disease. When administered after 6-OHDA or MPTP –lesioning it restores the dopaminergic function and prevents degeneration of dopamine neurons in substantia nigra pars compacta.
Molecular Weight:	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 163 amino acids.
UniProt:	<a href="#">Q49AH0</a>

## Application Details

Comment:	Synonyms: Cerebral dopamine neurotrophic factor - CDNF, ARMETL1.
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/ml Concentration of the protein is determined by BCA Protein Analysis kit (Pierce). BSA was used as a standard
Buffer:	PBS pH 7.5
Handling Advice:	Recommended to aliquot into smaller quantities. Avoid repeated freeze-thaw cycles.
Storage:	-80 °C