

## CDNF, human recombinant

Catalogue #	P-100-100
Synonyms:	Cerebral dopamine neurotrophic factor – CDNF; ARMETL1
Uniprot ID:	Q49AH0
Source:	Human
MW:	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 163 amino acids
Host:	CHO-based cell line (expressed by QMCF Technology)
Purification:	Purified by ion-exchange chromatography and gel-filtration from serum-free CHO growth media. Protein is sterile-filtrated through 0.22 µm filter
Purity:	>90%
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 7.4
Endotoxine:	Less than 1EU/mg of protein as determined by LAL method
Bioproperties:	Protein is biologically active. Suitable for cell culture and <i>in vivo</i> testing. Biological activity of human CDNF 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)
QC:	SDS-PAGE and Western-Blot analysis (Figure 1 and 2, respectively). Mass-spectroscopy: Purified human CDNF is characterized as homogenous material by mass-spectroscopy
Related Products:	Polyclonal and monoclonal antibodies against

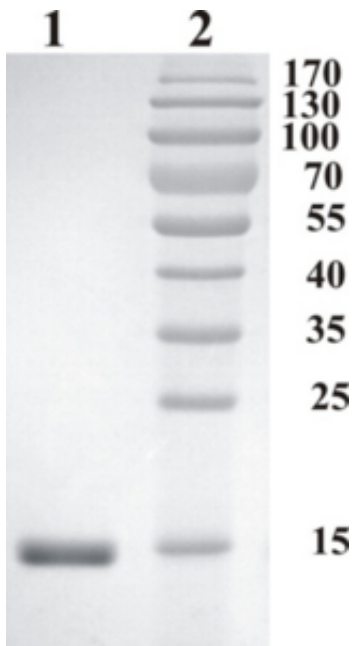
human CDNF. For more information please visit:  
[www.icosagen.com/antibodies](http://www.icosagen.com/antibodies), human  
neural growth factors. For more information  
please visit: [www.icosagen.com/proteins](http://www.icosagen.com/proteins)

Shipping: Shipped on dry ice

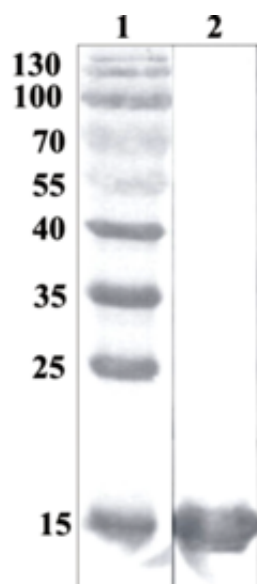
Storage: Store at -70°C upon receipt. Recommended to  
aliquot into smaller quantities. Avoid repeated  
freeze-thaw cycles

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

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**Figure 1.** SDS-PAGE analysis of human CDNF visualized by PageBlue protein staining solution (Fermentas). Line 1. 4 µg of CDNF; Line 2. Protein size marker (PageRuler Prestained protein ladder, Fermentas).



**Figure 2.** Western Blot testing of human CDNF using anti-CDNF polyclonal antibody (Icosagen AS Cat. No 300-100). Line 1. PageRuler Prestained Protein Ladder (#SM0671 Fermentas). Line 2. Recombinant CDNF expressed into the supernatant of CHO cell culture medium.