

## Active Recombinant Human CDNF

**Cat. No.** CDNF-537H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CDNF produced in E. coli is approximately 18.3 kDa, a single non-glycosylated polypeptide chain containing 161 amino acids.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Cerebral dopamine neurotrophic factor (CDNF), also known as ARMET-like protein 1, is encoded by the CDNF gene in humans and widely expressed in neuronal and non-neuronal tissues. The CDNF is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). Furthermore, it also prevents the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. By research, CDNF might be beneficial for the treatment of Parkinson's disease. Recombinant human CDNF contains 162 amino acid residues and it shares 81 % and 84 % a.a. sequence identity with murine and rat CDNF.
<b>Form</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, 150 mM NaCl, pH 6.4, 3% trehalose.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 determined by a cell proliferation assay using rat C6 cells is less than 25 µg/ml, corresponding to a specific activity of >4 × 10 <sup>4</sup> IU/mg.
<b>Molecular Mass</b>	18.3 kDa

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>AA Sequence</b>	QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYLGG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLDSQICEL KYEKTLDLAS VDLRKMRAE LKQILHSWGE ECRACA EKTD YVNLIQELAP KYAATHPKTE L
<b>Endotoxin</b>	Less than 1 EU/μg of rHuCDNF as determined by LAL method.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses.
<b>Usage</b>	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	CDNF cerebral dopamine neurotrophic factor [ Homo sapiens ]
<b>Official Symbol</b>	CDNF
<b>Synonyms</b>	CDNF; cerebral dopamine neurotrophic factor; arginine rich, mutated in early stage

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tumors like 1 , ARMETL1; conserved dopamine neurotrophic factor; ARMET-like protein 1; arginine-rich, mutated in early stage tumors-like 1; ARMETL1;

**Gene ID** [441549](#)

**mRNA Refseq** [NM\\_001029954](#)

**Protein Refseq** [NP\\_001025125](#)

**MIM** [611233](#)

**UniProt ID** [Q49AH0](#)

**Chromosome Location** 10p13

**Function** growth factor activity;

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