

Active Recombinant Human CDNF

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

SPECIFICATION

Product Overview	Recombinant Human CDNF produced in E. coli is approximately 18.3 kDa, a single non-glycosylated polypeptide chain containing 161 amino acids.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, 150 mM NaCl, pH 6.4, 3% trehalose.
Bio-activity	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 $>4 \times 10^4$ IU/mg.
Molecular Mass	18.3 kDa

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AA Sequence	QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYYLG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLSQICEL KYEKTLDLAS VDLRKMRVAE LKQILHSWGE ECRACA EKTD YVNLIQELAP KYAATHPKTE L
Endotoxin	Less than 1 EU/μg of rHuCDNF as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analyses.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	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.
Reconstitution	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

Gene Name	CDNF cerebral dopamine neurotrophic factor [Homo sapiens]
Official Symbol	CDNF
Synonyms	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;