

# Active Recombinant Human CDNF, His-tagged, Biotinylated

**Cat. No.** CDNF-591H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The recombinant human CDNF is expressed as a 174 amino acid protein consisting of Gln25 - Leu187 region of CDNF (UniProt entry Q49AH0) and a C-terminal poly-Histidine tag.                  |
| <b>Species</b>          | Human                                                                                                                                                                                        |
| <b>Source</b>           | Human Cells                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 25-187 a.a.                                                                                                                                                                                  |
| <b>Form</b>             | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).                                               |
| <b>Bio-activity</b>     | CDNF is reported to enhance neurite outgrowth of E18 rat embryonic cortical neurons and increases neurite outgrowth when immobilized at 6 - 24 µg/mL on a nitrocellulose- coated microplate. |
| <b>Molecular Mass</b>   | Calculated molecular mass 19.9 kDa; estimated by SDS-PAGE under reducing condition ~22 kDa with a higher molecular mass band (~25 kDa) resembling a glycosylated state.                      |
| <b>AA Sequence</b>      | QGGQAGGRPGADCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCLDTKGKENRL<br>CYYLGATKDAATKILSEV TRPMSVHMPAMKICEKLKKLDSQICELKYEKTLDLASVDL<br>RKMRVAELKQILHSWGEECRACAEKTDYVNLIQE LAPKYAATHPKTELSTGHHHHH<br>HHH |

 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>Endotoxin</b>   | <0.1 eu per 1 µg of purified recombinant protein determined by the                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>      | >95% judged by SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>     | The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles. |
| <b>Conjugation</b> | Biotin                                                                                                                                                                                                                                                                                                                                              |

## 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 tumors like 1 , ARMETL1; conserved dopamine neurotrophic factor; ARMET-like protein 1; arginine-rich, mutated in early stage tumors-like 1; ARMETL1; |
| <b>Gene ID</b>         | 441549                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_001029954                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_001025125                                                                                                                                                                                                                            |
| <b>MIM</b>             | 611233                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>      | Q49AH0                                                                                                                                                                                                                                  |

 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>Chromosome<br/>Location</b> | 10p13                   |
| <b>Function</b>                | growth factor activity; |