

## Active Recombinant Human GDNF protein(Arg83-Ile185)

**Cat. No.** GDNF-7292H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GDNF (P39905-2) (Arg 83-Ile 185) was expressed and purified in HEK293, with additional two aa (Gly& Pro) at the N-terminus.                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Arg83-Ile185                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | 1. Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The ED50 for this effect is typically 3-20 ng/mL in the presence of Recombinant Human GFR alpha-1/GDNF R alpha-1 His Chimera. 2. Immobilized Recombinant Human GDNF Protein at 2 µg/mL (100 µL/well) can bind Recombinant Human GFRA1 / GFRα1 / GDNFRA Protein (His Tag), the EC50 is 15-48 ng/mL. |
| <b>Molecular Mass</b>   | The recombinant human GDNF consists of 105 amino acids and predicts a molecular mass of 15.1 KDa. It migrates as approximately 18 KDa band in SDS-PAGE under reducing conditions.                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                        |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GDNF glial cell derived neurotrophic factor [ Homo sapiens ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | GDNF                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; astrocyte derived trophic factor; ATF1; ATF2; glial cell line derived neurotrophic factor; glial derived neurotrophic factor; HFB1 GDNF; ATF; astrocyte-derived trophic factor; HSCR3; HFB1-GDNF; |
| <b>Gene ID</b>         | 2668                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_000514                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_000505                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>             | 600837                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | P39905                                                                                                                                                                                                                                                                                       |

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