

## Glial-Derived Neurotrophic Factor Rat Recombinant

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| <b>Item Number</b>                       | rAP-2676                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                          | ATF1, ATF2, HFB1-GDNF, GDNF.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>                       | Glial derived Neurotrophic Factor Rat Recombinant produced in E.Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 134 amino acids and having a total molecular mass of 29.8 kDa.&nbsp;                                                                                                                                                                                                               |
| <b>Uniprot Accession Number</b>          | Q07731                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Amino Acid Sequence</b>               | SPDKQAALP RRENRRQAAA ASPENSRGKG RRGQRGKNRG CVLTAIHLNV TDGLGYETK<br>EELIFRYCSG SCESAETMYD KILKNLSRSR RLTSKVGQA CCRPVAFDDD LSFLDDNLVY HILRKH-<br>SAKR CGCI&nbsp;                                                                                                                                                                                                                                                             |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Glial-derived Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDNF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | GDNF was lyophilized from a sterile solution containing 1xPBS, pH 7.4. Greater than 98.0% as determined by HPLC analysis and by SDS-PAGE.                                                                                                                                                                                                                                                                                  |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18M <sup>-</sup> -cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                 |
| <b>Biological Activity</b>               | Recombinant rat GDNF has full biological activity when compared to standards. The ED <sub>50</sub> , determined by a cell proliferation assay using rat C6 cells, is less than 0.2ng/ml corresponding to a specific activity of more than 5,000,000IU/mg.                                                                                                                                                                  |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                                                    |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**