

Rat GDNF Recombinant Protein



RPPB0297

Product Information Protein Information

Product SKU:

RPPB0297

Accession:

Q07731

Host:

Escherichia Coli.

Protein description:

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.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

ATF1, ATF2, HFB1-GDNF, GDNF.

Formulation:

GDNF was lyophilized from a sterile solution containing 1xPBS, pH 7.4.

Purity:

Greater than 98.0% as determined by HPLC analysis and by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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.

Amino Acid Sequence:

SPDKQAALP RRENRRNQAAA ASPENSRGKG RRGQRGKNRG CVLTAIHLNV TDLGLGYETK EELIFRYCSG
SCESAETMYD KILKNLSRSR RLTSKVGQA CCRPVAFDDD LSFLDDNLVY HILRKHSKR CGCI

Biological Activity:

Recombinant rat GDNF has full biological activity when compared to standards. The ED₅₀, 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.