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Recombinant Human Mature GDNF Protein

Catalog No.: RP01954 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2668	P39905-1

Tags
N-6His

Synonyms
GDNF;Glial cell line-derived neurotrophic factor; hGDNF; Astrocyte-derived trophic factor; ATF

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
12.46 kDa	15-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifμge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Glial cell-derived neurotrophic factor (GDNF) is a protein that, in humans, is encoded by the GDNF gene. GDNF is a small protein that potently promotes the survival of many types of neurons. GDNF, that acts via classical neurotrophic mechanism, has been effective in several pre-clinical models of PD and had some efficacy in parkinsonian patients.

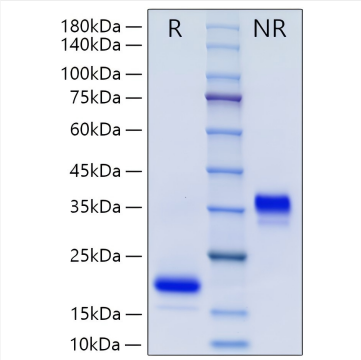
Basic Information

Description
Recombinant Human Mature GDNF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg109-Ile211)of Human Mature GDNF (Accession #NP_000505.1) fused with a His tag at the N-terminus.

Bio-Activity

Storage
Store at -20℃. Store the lyophilized protein at -20℃ to -80℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Mature GDNF Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions., showing single bands at 15-25 kDa and 35-45 kDa. respectively.