

Recombinant Human Mature GDNF Protein

Catalog No.: RP00835

Sequence Information

Species **Gene ID**
Human 2668

Swiss Prot **Tags**
P39905 NO-Tag

Synonyms

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

Product Information

Source **Purification**
E. coli ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
15.07 kDa 15-25 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

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

Reconstitution

Centrifuge 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Glial cell line-derived neurotrophic factor(GDNF) is an important member of the GDNF family of ligands(GFL). The GDNF family of ligands is comprised by four neurotrophic factors: glial cell line-derived neurotrophic factor (GDNF), neurturin (NRTN), artemin (ARTN), and persephin (PSPN). It has been found that GFLs play a role in a number of biological processes including cell survival, neurite outgrowth, cell differentiation and cell migration. As the founding member, GDNF plays a key role in the promotion of the survival of dopaminergic neurons. GDNF is a highly conserved neurotrophic factor. The recombinant form of this protein also promotes the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. GDNF also regulates kidney development and spermatogenesis, and it affects alcohol consumption. It has been shown that GDNF results in two Parkinson's disease clinical trial and in a number of animal trials. It has been taken as a po

Basic Information

Description

Recombinant Human GDNF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser78-Ile211) of human GDNF (Accession #P39905).

Activity

Measured in a cell proliferation assay using SH-SY5Y cells. The ED₅₀ for this effect is 1.82-7.26 ng/mL in the presence of Recombinant Human GFR alpha -1 (Catalog # RP01970), corresponding to a specific activity of 1.38×10⁵ ~5.49×10⁵ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

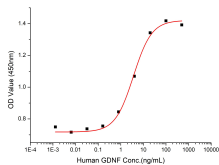
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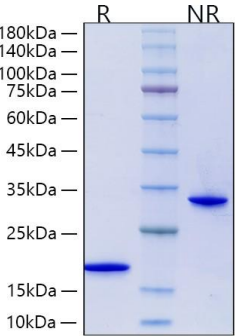
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Validation Data



Measured in a cell proliferation assay using SH-SY5Y cells. The ED₅₀ for this effect is 1.82-7.26 ng/mL in the presence of Recombinant Human GFR alpha -1 (Catalog # RP01970), corresponding to a specific activity of 1.38×10⁵ ~5.49×10⁵ units/mg.



Recombinant Human Mature GDNF Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.