

Recombinant Mouse Cerebral dopamine neurotrophic factor/CDNF Protein

Catalog No.: RP03559 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	227526	Q8CC36

Tags

C-His

Synonyms

Cdnf; Armetl1; Cerebral dopamine neurotrophic factor

Product Information

Source	Purification
HEK293 Cells	> 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
21.03 kDa	18-25 KDa

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method.

Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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.

Contact

 | 400-999-6126

Background

Cerebral dopamine neurotrophic factor/CDNF is a secreted protein with eight conserved cysteine residues, predicting a unique protein fold and defining a new, evolutionarily conserved protein family. CDNF is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). CDNF/ARMETL1 is an evolutionary conserved protein which can protect and restore the function of dopaminergic neurons in the rat model of Parkinson's disease, suggesting that CDNF might be beneficial for the treatment of Parkinson's disease. CDNF is widely expressed in neurons in several brain regions including cerebral cortex, hippocampus, substantia nigra, striatum and cerebellum.

Basic Information

Description

Recombinant Mouse Cerebral dopamine neurotrophic factor/CDNF Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Met 1-Leu 187) of Mouse Cerebral dopamine neurotrophic factor/CDNF (Accession #NP_808315.1) fused with His at the C-Terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

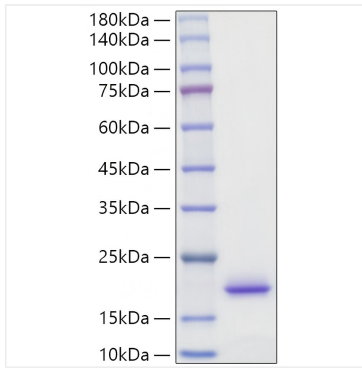
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

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

Validation Data



Recombinant Mouse Cerebral dopamine neurotrophic factor/CDNF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.