

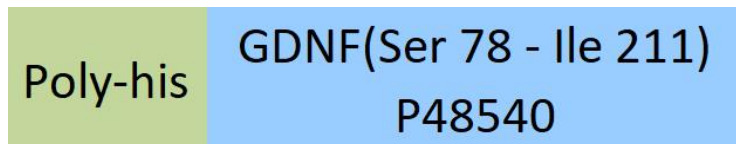
Synonym

GDNF,ATF

Source

Mouse GDNF, His Tag(GDF-M5245) is expressed from human 293 cells (HEK293). It contains AA Ser 78 - Ile 211 (Accession # [P48540](#)).

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 17.0 kDa. The protein migrates as 16 kDa, 18 kDa and 22-24 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Sterility

The sterility testing was performed by membrane filtration method.

Mycoplasma

Negative.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

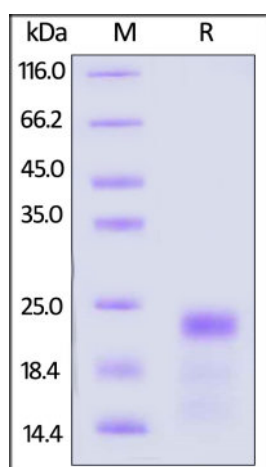
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

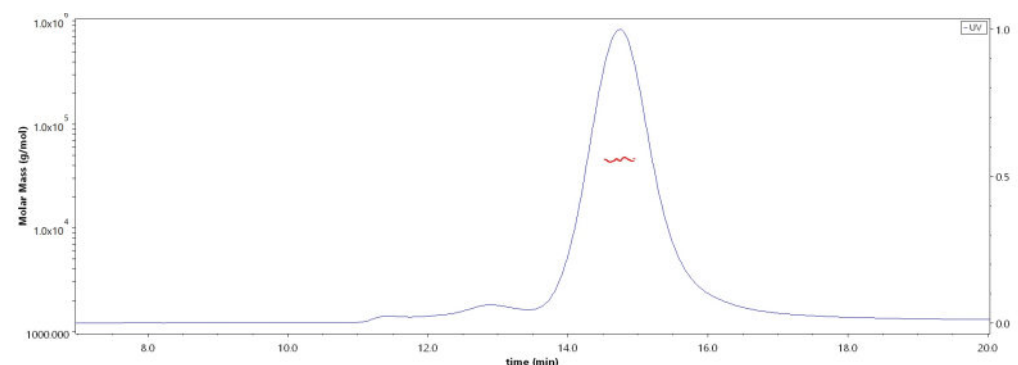
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse GDNF, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Mouse GDNF, His Tag (Cat. No. GDF-M5245) is more than 90% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.

[Report](#)

Background

GDNF promotes the survival and differentiation of neurons in culture, and is able to prevent apoptosis of motor neurons induced by axotomy. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease.

GDNF enhances survival and morphological differentiation of neurons and increases their high-affinity uptake

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.