

Synonym

CDNF;Cerebral dopamine neurotrophic factorarginine-rich;mutated in early stage tumors-like 1; ARMETL1; ARMET-like protein 1; Conserved dopamine neurotrophic factor

Source

Mouse CDNF, His Tag(CDF-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - Leu 187 (Accession # [Q8CC36](#)). Predicted N-terminus: Gln 25

Molecular Characterization

CDNF(Gln 25 - Leu 187) Q8CC36	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 20.4 kDa. The protein migrates as 21-23 kDa 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

>95% as determined by SDS-PAGE.

>95% 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

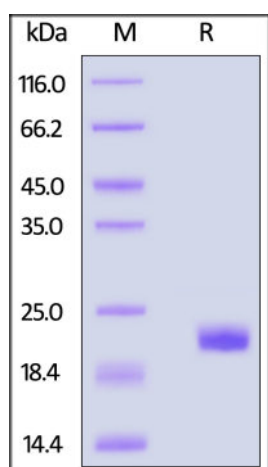
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

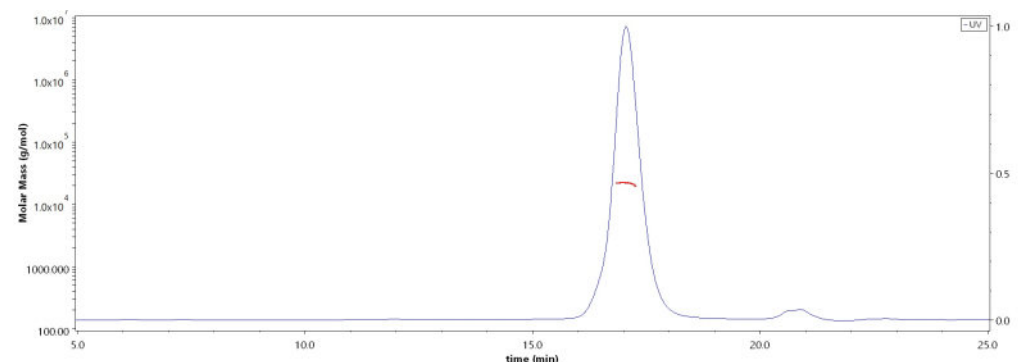
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse CDNF, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Mouse CDNF, His Tag (Cat. No. CDF-M52H3) is more than 95% and the molecular weight of this protein is around 18-25 kDa verified by SEC-MALS.

[Report](#)

Background

CDNF is a member of the ARMET family and acts as a trophic factor for dopamine neurons. CDNF inhibits the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. When CDNF controlled after 6-OHDA-lesioning, it reestablishes the dopaminergic function and inhibits the degeneration of dopaminergic neurons in substantia nigra. CDNF is universally expressed in neuronal and non-neuronal tissues. The highest levels in the brain are found in the optic nerve and corpus callosum.

Clinical and Translational Updates

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