



## Synonym

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

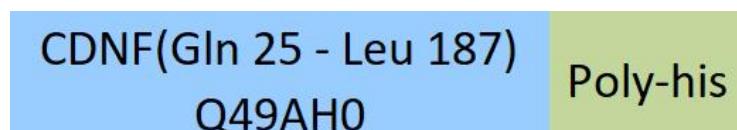
## Source

Human CDNF Protein, His Tag, premium grade(CDF-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - Leu 187 (Accession # [Q49AH0](#)).

Predicted N-terminus: Gln 25

*It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.*

## Molecular Characterization



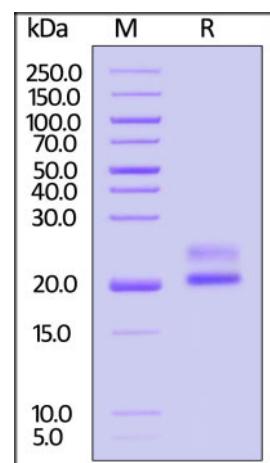
This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.4 kDa. The protein migrates as 20-21 kDa and 24-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.01 EU per  $\mu$ g by the LAL method / rFC method.

## SDS-PAGE



Human CDNF Protein, His Tag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Sterility

Negative

## Mycoplasma

Negative

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

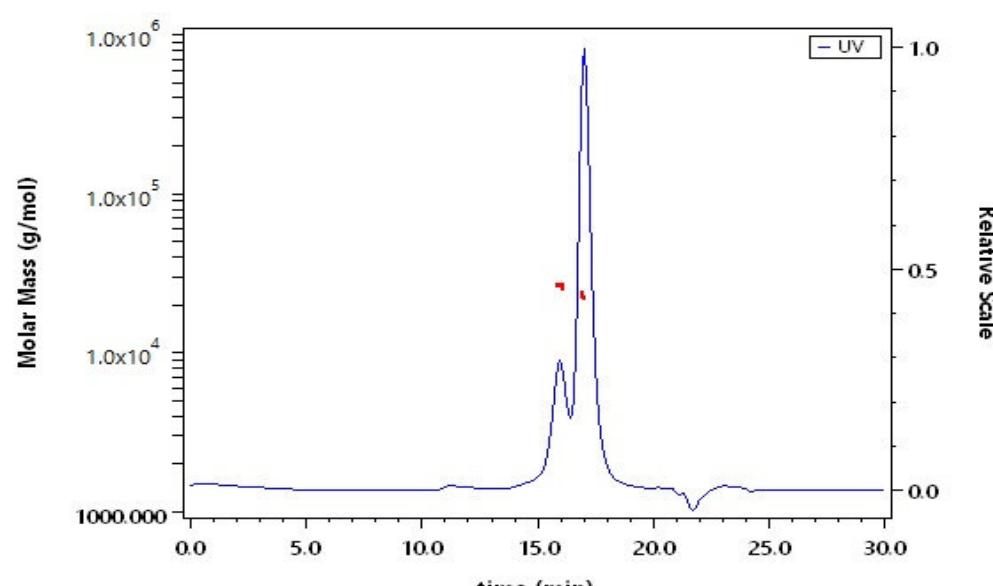
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

## SEC-MALS



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The purity of Human CDNF Protein, His Tag, premium grade (Cat. No. CDF-H52H4) is more than 95% and the molecular weight of this protein is around 20-30 kDa verified by SEC-MALS.

[Report](#)

## Background

CDNF is a member of the ARMET family and acts as a trophic factor for neurons. CDNF inhibits the (6-OHDA)-induced degeneration of neurons. When CDNF controlled after 6-OHDA-lesioning, it reestablishes the function and inhibits the degeneration of 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.

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