



**Synonym**

Mesencephalic astrocyte-derived neurotrophic factor, Arginine-Rich Protein, arginine-rich, mutated in early stage tumors, ARMET, ARP, MANF, mesencephalic astrocyte-derived neurotrophic facto, Protein ARMET

**Source**

Human MANF Protein, His Tag(MAF-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Leu 182 (Accession # [P55145](#)). Predicted N-terminus: Leu 25

**Molecular Characterization**

MANF(Leu 25 - Leu 182) P55145	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.0 kDa. The protein migrates as 19-21 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method / rFC method.

**Sterility**

Negative

**Mycoplasma**

Negative.

**Purity**

>95% as determined by SDS-PAGE.

>98% 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**

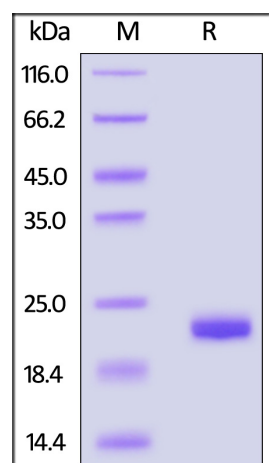
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

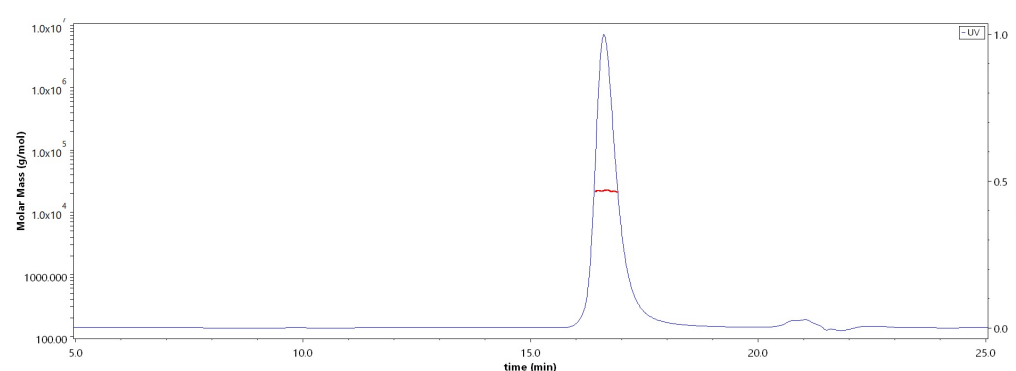
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**



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

**SEC-MALS**



The purity of Human MANF Protein, His Tag (Cat. No. MAF-H52H3) is more than 98% and the molecular weight of this protein is around 18-26 kDa verified by SEC-MALS.

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## Human MANF Protein, His Tag (MALS verified)

Catalog # MAF-H52H3



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### Background

MANF is a secreted neurotrophic factor that is expressed in brain, neuronal and certain non-neuronal tissues. It has been shown to promote the survival, growth and function of dopamine-specific neurons. MANF and its structural homolog CDFN each contain a N-terminal, saposin-like, lipid-binding domain, and a carboxyl-terminal domain that is not homologous to previously characterized protein structures. MANF and CDFN can prevent 6-OHDA-induced degeneration of dopaminergic neurons by triggering survival pathways in a rat experimental model of Parkinson's disease. Recombinant Human MANF is an 18.1 kDa protein consisting of 158 amino acids, including 8 cysteine residues.

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