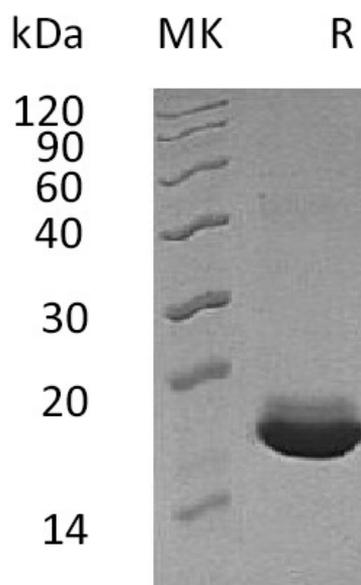


## Summary

|                                 |  |
|---------------------------------|--|
| <b>Name</b>                     | ARMET/MANF   |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE  |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.  |
| <b>Construction</b>             | Recombinant Human Mesencephalic Astrocyte-derived Neurotrophic Factor is produced by our Mammalian expression system and the target gene encoding Leu25-Leu182 is expressed with a 6His tag at the C-terminus.   |
| <b>Accession #</b>              | P55145   |
| <b>Host</b>                     | Human Cells  |
| <b>Species</b>                  | Human  |
| <b>Predicted Molecular Mass</b> | 18.99 KDa  |
| <b>Formulation</b>              | Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  |
| <b>Shipping</b>                 | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.   |
| <b>Stability&amp;Storage</b>    | Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.  |
| <b>Reconstitution</b>           | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image

**Product Name: Recombinant Human MANF (C-6His)**  
**Catalog #: PHH0100**



### **Alternative Names**

Mesencephalic astrocyte-derived neurotrophic factor; Arginine-rich protein; Protein ARMET; ARMET; ARP

### **Background**

Mesencephalic astrocyte-derived neurotrophic factor(MANF) is a secreted protein which belongs to the ARMET family. MANF selectively promotes the survival of dopaminergic neurons of the ventral mid-brain. It modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. MANF enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons. MANF inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death. The N-terminal region of ARMET may be responsible for neurotrophic activity while the C-terminal region may play a role in the ER stress response. MANF reduces endoplasmic reticulum (ER) stress and has neurotrophic effects on dopaminergic neurons. Intracortical delivery of recombinant MANF protein protects tissue from ischemic brain injury. MANF has been described as a survival factor for dopaminergic neurons. MANF and a homologous protein, the conserved dopamine neurotrophic factor (CDNF), form a novel evolutionary conserved family of neurotrophic factors. MANF expression was widespread in the nervous system and non-neuronal tissues.

### **Note**

For Research Use Only , Not for Diagnostic Use.