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Datasheet for ABIN1691494  
**MANF Protein (AA 25-182) (His tag)**

### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 50 µg                                       |
| Target:                       | MANF  |
| Protein Characteristics:      | AA 25-182                                   |
| Origin:                       | Human                                       |
| Source:                       | Human Cells                                 |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This MANF protein is labelled with His tag. |

### Product Details

|                  |   |
|------------------|---|
| Purpose:         | Recombinant Human MANF/ARMET (C-6His)   |
| Sequence:        | LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC REARGKENRL CYYIGATDDA<br>ATKIINEVSK PLAHHIPVEK ICEKLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL<br>DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDLHH HHHH  |
| Characteristics: | Recombinant Human Mesencephalic astrocyte-derived neurotrophic factor/MANF is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu25Leu182) of Human MANF fused with a polyhistidine tag at the C-terminus. |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.  |
| Sterility:       | 0.2 µm filtered   |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test  |

## Target Details

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|                   |   |
|-------------------|---|
| Target:           | MANF  |
| Alternative Name: | MANF ( <a href="#">MANF Products</a> )  |
| Sub Type:         | Fusionprotein   |
| Background:       | <p>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.</p> <p>Alternative Names: Mesencephalic astrocyte-derived neurotrophic factor, Arginine-rich protein, Protein ARMET, ARMET, ARP</p> |

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Molecular Weight: 21.5 kDa

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UniProt: [P55145](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.

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Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

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Storage: 4 °C/-20 °C/-80 °C

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## Handling

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Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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Expiry Date: 5 months