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# **DATASHEET**

Recombinant human MANF protein

#### **Product overview**

Name Recombinant human MANF protein

Cat No HB6750 Species of origin human

**Alternative names** Recombinant Human Mesencephalic Astrocyte-Derived Neurotrophic Factor, Mesencephalic astrocyte-

derived neurotrophic factor, Protein ARMET, ARP, arginine-rich mutated in early stage tumors,

Arginine-rich protein.

**Purity** 

Description Recombinant Human Mesencephalic Astrocyte-Derived Neurotrophic Factor protein

### **Biological Data**

**Application notes** The ED<sub>50</sub> = ~15-25micro;g/ml (determined by its ability to stimulate the proliferation of rat C6 cells)

## **Solubility & Handling**

Solubility overview To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/ml, which

can then be diluted to make a working solution

Handling • Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions.

• Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.

 For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20 °C. Freeze-thaw cycles should be prevented.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## **Chemical Data**

**Important** 

**UniProt ID** P55145 Source E. Coli.

White lyophilized powder (sterile filtered & freeze-dried) **Appearance** 

**Formulation** Lyophilized & filtered (0.2µm) from a solution (1mg/ml) in PBS (pH7.4)

#### References

MANF: a new mesencephalic, astrocyte-derived neurotrophic factor with selectivity for dopaminergic neurons

Petrova P et al (2003) J Mol Neurosci 20(2) **PubMedID** 

Mesencephalic astrocyte-derived neurotrophic factor is neurorestorative in rat model of Parkinson's disease

Voutilainen MH et al (2009) J Neurosci 29(30)

**PubMedID** 19641128

Mesencephalic Astrocyte-Derived Neurotrophic Factor (MANF) Elevates Stimulus-Evoked Release of Dopamine in Freely-Moving Rats

Renko JM *et al* (2018) Mol Neurobiol 55(8) **PubMedID** 29349573