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# **DATASHEET**

Recombinant rat MANF protein

## **Product overview**

Name Recombinant rat MANF protein

Cat No HB7500 Species of origin rat

Alternative names Recombinant Rat Mesencephalic Astrocyte-Derived Neurotrophic Factor, Mesencephalic astrocyte-

derived neurotrophic factor, Arginine-rich protein, Protein ARMET, Manf, Armet.

Purity >98%

**Description** Recombinant rat Mesencephalic Astrocyte-Derived Neurotrophic Factor protein

## **Biological Data**

**Application notes** The ED<sub>50</sub> =  $\leq$ 10 $\mu$ g/ml (determined by a cell proliferation assay using rat C6 cells), corresponding to a

specific activity of >100 IU/mg.

## **Solubility & Handling**

**Solubility overview** To make a stock solution, reconstitute the lyophilized MANF in sterile  $18M\Omega$ cm water at a

concentration > 100µg/ml, which can then be diluted to make a working solution

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.

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

for human or veterinary use.

### **Chemical Data**

UniProt ID P0C5H9 Source E. Coli.

**Appearance** White lyophilized powder (sterile filtered & freeze-dried) **Formulation** Lyophilized from a 0.2µm filtered solution in PBS (pH 7.4)

#### 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**12794311

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