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# DATASHEET

Recombinant mouse MANF protein

#### **Product overview**

Name Cat No Biological description	Recombinant mouse MANF protein HB6565 The mouse MANF neurotrophic factor belongs to the ARMET family and has been shown to have neuroprotective effects for dopaminergic neurons.
Species of origin	MANF expression is also induced during ER stress and is involved in protein quality control during ER stress. mouse
Alternative names	Recombinant Mouse Mesencephalic Astrocyte-Derived Neurotrophic Factor, Mesencephalic astrocyte- derived neurotrophic factor, Arginine-rich protein, Protein ARMET, Manf, Armet.
Biological action Purity Description	Activator >98% Neurotrophic factor with neuroprotective effects

## **Biological Data**

**Application notes**  $ED_{50} = 10\mu g/ml$  (determined by a ce

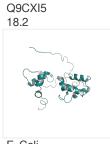
 $ED_{50} = 10\mu$ g/ml (determined by a cell proliferation assay using rat C6 cells), corresponding to a specific activity of >1.00IU/mg.

## **Solubility & Handling**

Storage instructions Solubility overview	-20 °C To make a stock solution, reconstitute in sterile 18M $\Omega$ cm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
Handling	<ul> <li>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.</li> <li>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.</li> <li>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.</li> </ul>
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 Molecular Weight Chemical structure



## 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