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## DATASHEET

### Recombinant human MANF protein

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#### Product overview

<b>Name</b>	Recombinant human MANF protein
<b>Cat No</b>	HB6750
<b>Species of origin</b>	human
<b>Alternative names</b>	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.
<b>Purity</b>	>95%
<b>Description</b>	Recombinant Human Mesencephalic Astrocyte-Derived Neurotrophic Factor protein

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#### Biological Data

<b>Application notes</b>	The ED <sub>50</sub> = ~15-25microg/ml (determined by its ability to stimulate the proliferation of rat C6 cells)
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#### Solubility & Handling

<b>Solubility overview</b>	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
<b>Handling</b>	<ul style="list-style-type: none"><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>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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#### Chemical Data

<b>UniProt ID</b>	P55145
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized & filtered (0.2µm) from a solution (1mg/ml) in PBS (pH7.4)

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#### 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

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