

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

Recombinant mouse MANF protein

Product overview

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

Biological Data

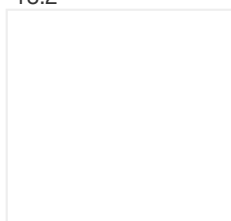
| | |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Application notes | ED ₅₀ = 10µg/ml (determined by a cell proliferation assay using rat C6 cells), corresponding to a specific activity of >1.00IU/mg. |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

Solubility & Handling

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|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage instructions | -20 °C |
| 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 | <ul style="list-style-type: none">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. |

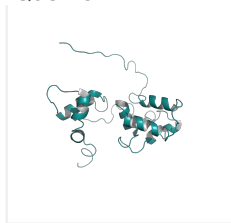
Chemical Data

| | |
|---------------------------|--------|
| UniProt ID | Q9CXI5 |
| Molecular Weight | 18.2 |
| Chemical structure | |



UniProt ID

Q9CXI5



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](#)
