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DATASHEET

Recombinant mouse MANF protein

Product overview

Name	Recombinant mouse MANF protein
Cat No	HB6565
Biological description	The mouse MANF neurotrophic factor belongs to the ARMET family and has been shown to have neuroprotective effects for dopaminergic neurons. MANF expression is also induced during ER stress and is involved in protein quality control during ER stress.
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

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	• 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	
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)
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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