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## Product Data Sheet

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Product Name: MANF Rat  
 Cat. No.: GP20731  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Mesencephalic astrocyte-derived neurotrophic factor; Arginine-rich protein; Protein ARMET; Manf; Armet.		
Amino Acid Sequence	LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIEEELIKFC REARGKENRL CYYIGATDDA ATKIINEVSK PLAAHHPVEK ICEKLLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGEMCKGC AEKSDYIRKI NELMPKYAPK AASARTDL.		
Solubility	It is recommended to reconstitute the lyophilized MANF in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

MANF is a 20kDa protein which belongs to the ARMET family. MANF was originally known as an arginine-rich region protein which was extremely mutated in a large number of tumors. MANF Expression is induced during ER stress, signifying that MANF takes part in protein quality control during ER stress.

### Biological Activity

The ED<sub>50</sub> as determined by a cell proliferation assay using rat C6 cells is less than 10µg/ml, corresponding to a specific activity of >100 IU/mg.

### Stability

Lyophilized MANF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution MANF should be stored at 4°C between 2-7

**Caution: Product has not been fully validated for medical applications. For research use only.**

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days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

MANF Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 18.2kDa.

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