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## Product Data Sheet

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Product Name: MANF Human  
 Cat. No.: GP20729  
 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; Protein ARMET; ARP; arginine-rich mutated in early stage tumors; Arginine-rich protein.		
Amino Acid Sequence	LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC REARGKENRL CYYIGATDDA ATKIINEVSK PLAAHHPVEK ICEKLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGETCKGC 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	Filtered (0.2µm) and lyophilized from a concentrated (1mg/ml) solution in 16 <sup>-</sup> PBS, pH7.4.		

### 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> was determined by its ability to stimulate the proliferation of rat C6 cells is typically 15-25 µg/ml.

### Stability

Lyophilized MANF although stable at room temperature for 3 weeks, should be stored

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

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desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution MANF should be stored at  $4^{\circ}\text{C}$  between 2-7 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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 158 amino acids and having a molecular mass of 18.1 kDa. The MANF is purified by proprietary chromatographic techniques.

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