

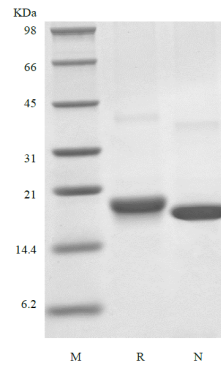
## MANF

### Recombinant Human Mesencephalic Astrocyte-Derived Neurotrophic Factor

<b>Catalog No.</b>	CS526A CS526B CS526C	<b>Quantity:</b>	5 µg 100 µg 500 µg
<b>Alternate Names:</b>	Mesencephalic astrocyte-derived neurotrophic factor, Arginine-rich protein, Protein ARMET, MANF		
<b>Description:</b>	<p>Mesencephalic astrocyte-derived neurotrophic factor is a secreted protein that is expressed in brain, neuronal and certain non-neuronal tissues. It has been shown to promote survival, growth and function of dopamine specific neurons. MANF and its structural homolog CDFN, each contain an N-terminal saposin-like lipid binding domain, and a carboxyl-terminal domain, which is not homologous to previously characterized protein structures. MANF and CDFN can prevent 6-OHDA induced degeneration of dopaminergic neurons by triggering survival pathways in a rat experimental model of Parkinson disease.</p> <p>Mature human MANF is 99%, 98% and 96% a.a. identical to mature rat, mouse and bovine MANF respectively.</p>		
<b>UniProt ID:</b>	P55145		
<b>Gene ID:</b>	7873		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	18.2 kDa (158 aa) monomer		
<b>Formulation:</b>	Lyophilized from sterile filtered PBS, pH 7.4.		
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	< 1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	ED <sub>50</sub> < 20 µg/ml, determined by a cell proliferation assay using rat C6 cells		
<b>Specific Activity:</b>	> 50 Units/mg		
<b>Amino Acid Sequence:</b>	LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC REARGKENRL CYYIGATDDA ATKIINEVSK PLAHHIPVEK ICEKLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDL		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing a carrier protein such as 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the particular application employed. Further dilution should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	Store unopened vial at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C for up to 3 months. <b>Avoid repeated freeze/thaw cycles.</b>		



## SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)