

Growth Factor Data Sheet

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survival pathways, as shown in a rat experimental model of Parkinson disease.

MANF is a secreted neurotrophic factor 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 CDNF 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 has been identified as a soluble ER stress protein induced by the unfolded protein response. MANF and CDNF can prevent 6-OHDA induced degeneration of dopaminergic neurons by triggering

Catalog Number 1170-15 **Product Name** MANF, Human Recombinant Human Mesencephalic Astrocyte-derived Neurotrophic Factor (MANF) Arginine-Rich, Mutated in Early Stage Tumors (ARMET) Arginine-Rich Protein (ARP) Escherichia coli Source MW ~18.2 kDa (158 amino acids) LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC REARGKENRL CYYIGATDDA Sequence ATKIINEVSK PLAHHIPVEK ICEKLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDL **Accession Number** P55145 >97% by SDS-PAGE and HPLC analyses Purity **Biological Activity** Fully biologically active when compared to standard. The ED₅₀ as determined by a cell proliferation assay using rat C6 cells is less than 20 μg/ml, corresponding to a specific activity of >50 IU/mg. **Formulation** Sterile filtered white lyophilized powder. Purified and tested for use in cell culture. Storage/Handling This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles. Reconstitution The sample should be briefly centrifuged prior to opening to bring the contents to the

bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a

be made in appropriate buffered solutions containing BSA or serum.

concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should

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