



Recombinant Human MANF

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-136S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	7873
Synonyms:	MANF; ARP; ARMET

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 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. Recombinant human MANF is an 18.1 kDa protein consisting of 158 amino acids including 8 cysteine residues.

Sequence

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LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC  
REARGKENRL CYYIGATDDA ATKIINEVSK PLAHHIPVEK  
ICEKLLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL  
DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDL
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Database References

Protein RefSeq:	NP_006001.3
Uniprot ID:	P55145
mRNA RefSeq:	NM_006010.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	158
MW:	18.1 kDa

Biological Activity: Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED50 for this effect is 15-25 µg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!