

MANF

Recombinant Human ARMET / MANF (His Tag)

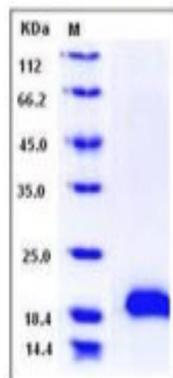
Catalog No.	CRH631A-His CRH631B-His	Quantity:	50 µg 100 µg
Alternate Names:	Mesencephalic astrocyte-derived neurotrophic factor, Arginine-rich protein, Protein ARMET		
Description:	Mesencephalic astrocyte-derived neurotrophic factor (MANF) promotes the survival of dopaminergic neurons of the ventral mid-brain. It modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. MANF enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons and inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death. The N-terminal region of MANF may be responsible for neurotrophic effects on dopaminergic neurons, while the C-terminal region may play a role in the ER stress response. In the brain, relatively high MANF levels were detected in the cerebral cortex, hippocampus and cerebellar Purkinje cells. Intracortical delivery of recombinant MANF protein protects tissue from ischemic brain injury. MANF has been described as a survival factor for dopaminergic neurons. MANF expression was widespread in non-neuronal tissues. The widespread expression of MANF together with its evolutionary conserved nature and regulation by brain insults suggest that it has important functions both under normal and pathological conditions in many tissue types.		
UniProt ID:	P55145		
Accession Number:	NP_006001.4		
Protein Construction:	A DNA sequence encoding the human MANF (Met1-Leu182) was expressed, with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human MANF consists of 169 amino acids and migrates at ~20 kDa in SDS-PAGE under reducing conditions as predicted.		
Purity:	> 96 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Leu 22		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C .
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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

