

Datasheet for ABIN7317181 **MANF Protein (Fc Tag)**

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Overview

Quantity:	100 µg
Target:	MANF
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MANF protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human MANF/ARMET Protein (Fc Tag)
Sequence:	Met 1-Leu182
Characteristics:	A DNA sequence encoding the human MANF (NP_006001.4) (Met1-Leu182) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	>(86.6+6.8) % as determined by reducing SDS-PAGE..
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MANF
Alternative Name:	MANF/ARMET (MANF Products)
Background:	Background: Mesencephalic astrocyte-derived neurotrophic factor, also known as Protein ARMET, Arginine-rich protein, MANF and ARMET, is a secreted protein which belongs to the ARMET family. ARMET selectively promotes the survival of dopaminergic neurons of the ventral

Target Details

mid-brain. It modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. ARMET enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons. ARMET inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death. The N-terminal region of ARMET may be responsible for neurotrophic activity while the C-terminal region may play a role in the ER stress response. MANF reduces endoplasmic reticulum (ER) stress and has neurotrophic effects on dopaminergic neurons. 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 the nervous system and non-neuronal tissues. In the brain, relatively high MANF levels were detected in the cerebral cortex, hippocampus and cerebellar Purkinje cells. 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.

Synonym: ARMET,ARP,MAP 1D,MAP1D,MetAP 1D,Metap11

Molecular Weight: 44.9 kDa

NCBI Accession: [NP_006001](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.