

Datasheet for ABIN7318762  
**MANF Protein (His tag)**



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## Overview

Quantity:	50 µg
Target:	MANF
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MANF protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human MANF/ARMET Protein (His Tag)
Sequence:	Leu25-Leu182
Characteristics:	Recombinant Human Mesencephalic astrocyte-derived neurotrophic factor is produced by our Mammalian expression system and the target gene encoding Leu25-Leu182 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % 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 ( <a href="#">MANF Products</a> )
Background:	Background: Mesencephalic astrocyte-derived neurotrophic factor(MANF) is a secreted protein which belongs to the ARMET family. MANF selectively promotes the survival of dopaminergic

## Target Details

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. MANF 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 and a homologous protein, the conserved dopamine neurotrophic factor (CDNF), form a novel evolutionary conserved family of neurotrophic factors. MANF expression was widespread in the nervous system and non-neuronal tissues.

Synonym: Mesencephalic astrocyte-derived neurotrophic factor, Arginine-rich protein, Protein ARMET, ARMET, ARP

Molecular Weight: 19.2 kDa

UniProt: [P55145](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, 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.