

ARMET/MANF Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76731
Synonyms:	Mesencephalic astrocyte-derived neurotrophic factor; Arginine-rich protein; ARP
Species:	Human
Source:	HEK293
Accession:	A8K878 (M1-L182)
Gene ID:	7873
Molecular Weight:	Approximately 44.9 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Mesencephalic astrocyte-derived neurotrophic factor (MANF) is an evolutionary conserved endoplasmic reticulum stress- (ERS-) related protein. MANF is widely expressed in the brain of invertebrates and vertebrates, as well as peripheral nonneuronal tissues. MANF has a protective effect on central nervous system diseases and plays an important role in several metabolic diseases. MANF is mainly localized to the luminal endoplasmic reticulum (ER) as an ER chaperone protein, mainly interacting with BiP and Reticulon 1-C. Further, following a range of ER stress, MANF expression significantly enhanced with increasing receptors activating transcription factor 6 (ATF6) and transcription factor X-box binding protein 1 (XBP1), both of which are ER stress markers. Meanwhile, MANF can prevent ER stress-mediated cell death in neurons and other tissues, such as the liver, heart, and kidney. It can be used in reaserch on Parkinson's disease (PD), Alzheimer's disease, stroke, and diabetes ^[1] .
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Caution: Product has not been fully validated for medical applications. For research use only.

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