

Mesencephalic Astrocyte Derived Neurotrophic Factor Active Protein | MANF active protein

Active Mesencephalic Astrocyte Derived Neurotrophic Factor (MANF)

CATALOG #
AAA150127

APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Mesencephalic Astrocyte Derived Neurotrophic Factor; Active Mesencephalic Astrocyte Derived Neurotrophic Factor (MANF); ARMET; ARP; Arginine Rich Mutated In Early Stage Tumors; Arginine-rich protein; MANF active protein

PRODUCT SPECIFICATIONS

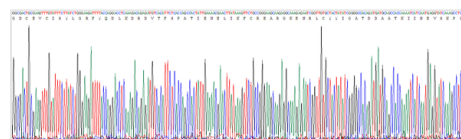
Purity/Purification	>90%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Gly28~Leu182
Sequence Length	185
Applicable Applications for MANF active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	8.5
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



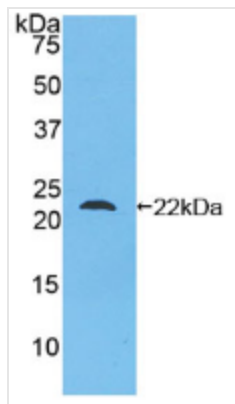
Application Data

MANF (Mesencephalic astrocyte-derived neurotrophic factor) is a prosurvival protein that protects the cells when applied intracellularly in vitro or extracellularly in vivo. Recently, MANF has also been proven to inhibit cell proliferation and ER stress-induced cell death and also affects cell size and morphology under certain conditions. Thus the bioactivity of human recombinant MANF were detected using U87-MG. Briefly, U87-MG cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of MANF. After incubated for 48h, cells were observed by inverted microscope and were shown in Figure 1. It was obvious that MANF inhibited cell proliferation of U87-MG and affected cell size and morphology. (A)U7-MG cells cultured in DMEM, stimulated with 0.01ng/mL MANF for 48h; (B)Unstimulated U87-MG cells cultured in DMEM for 48h. Figure 1. Inhibition of U87-MG cell proliferation after stimulated with MANF.

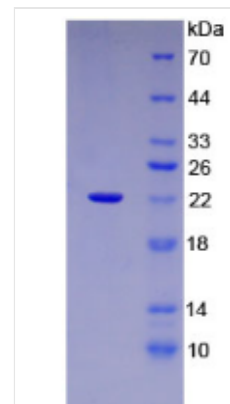


Gene Sequencing

Figure. Gene Sequencing (Extract)



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for MANF active protein

Tumor immunity; Neuro science

NCBI AND UNIPROT INFORMATION

NCBI GI #	618857509
NCBI GeneID	7873
NCBI Accession #	NP_006001.4
NCBI GenBank Nucleotide #	NP_006001.4
UniProt Accession #	P55145
Molecular Weight	Predicted Molecular Mass: 21.5kDa Accurate Molecular Mass: 22kDa
NCBI Official Full Name	mesencephalic astrocyte-derived neurotrophic factor
NCBI Official Synonym Full Names	mesencephalic astrocyte derived neurotrophic factor
NCBI Official Symbol	MANF
NCBI Official Synonym Symbols	ARP; ARMET
NCBI Protein Information	mesencephalic astrocyte-derived neurotrophic factor
UniProt Protein Name	Mesencephalic astrocyte-derived neurotrophic factor
UniProt Gene Name	MANF
UniProt Synonym Gene Names	ARMET; ARP
UniProt Entry Name	MANF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/manf-active-protein/mesencephalic-astrocyte-derived-neurotrophic-factor/150127>