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Recombinant human MANF protein

Catalog Number: ATGP1465

PRODUCT INFORMATION

Expression system
E.coli

Domain
25-182aa

UniProt No.
P55145

NCBI Accession No.
NP_006001

Alternative Names
Mesencephalic astrocyte-derived neurotrophic factor, ARMET, ARP

PRODUCT SPECIFICATION

Molecular Weight
20.8 kDa (183aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Mesencephalic astrocyte-derived neurotrophic factor, also known as MANF, is a 20 kDa member of the ARMET family of proteins. MANF was initially identified as a protein containing an arginine-rich region that was highly mutated in a variety of tumors. Expression of MANF has also been shown to be induced during ER stress, suggesting that it may play a role in protein quality control during ER stress. Recombinant human MANF protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

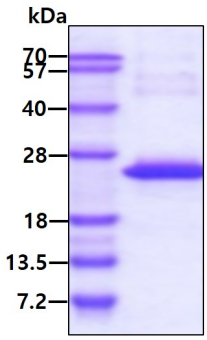
<MGSSHHHHHH SSGLVPRGSH MGSHM>LRPGD CEVCISYLGR FYQDLKDRDV TFSPATIENE LIKFCREARG KENRLCYYIG ATDDAATKII NEVSKPLAHH IPVEKICEKL KKKDSQICEL KYDKQIDLST VDLKKLRVKE LKKILDDWGE TCKGCAEKSD YIRKINELMP KYAPKAASAR TDL

General References

Shridhar V., et al. (1996) Cancer Res. 56:5576.
Petrova P S., et al. (2003) J Mol Neurosci. 20:173.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.