



Mesencephalic Astrocyte-Derived Neurotrophic Factor, human recombinant (rHuMANF)

Catalog No: 97542
Lot No: XXXXX
Source: *E. coli*
Synonyms: Mesencephalic astrocyte-derived neurotrophic factor, Protein ARMET, ARP, arginine-rich mutated in early stage tumors, Arginine-rich protein

Background

MANF is a 20 kDa protein which belongs to the ARMET family. MANF was originally known as an arginine-rich region protein which was extremely mutated in a large number of tumors. MANF Expression is induced during ER stress, signifying that MANF takes part in protein quality control during ER stress.

Description

MANF human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 158 amino acids and having a molecular mass of 18.1 kDa. MANF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Filtered (0.2 µm) and lyophilized from a concentrated (1 mg/ml) solution in 1×PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized MANF in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized MANF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MANF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

LRPGDCEVCI SYLGRFYQDL KDRDVTTFSPA TIENELIKFC REARGKENRL CYYIGATDDA ATKIINEVSK PLAHHIPVEK
ICEKLLKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDL

Activity

The ED₅₀ was determined by its ability to stimulate the proliferation of rat C6 cells is typically 15 - 25 µg/ml.

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