

Recombinant Human MANF Protein

Catalog No	RP00005	Category	Protein
Description	Recombinant Human MANF Protein is produced by <i>E. coli</i> expression system. The target protein is expressed with sequence (Leu25-Leu182) of human MANF (Accession #NP_006001.4).		
Bio-Activity	Measured by its ability to support the survival and stimulate neurite outgrowth of rat embryonic cortical neurons. The ED ₅₀ for this effect is 0.7-2.8 µg/mL.		

Sequence Information

Species	Human	Gene ID	7873
Tags	No tag	Swiss Prot	P55145
Synonyms	ARME1;ARP		
AA Sequence	LRPGDCEVCISYLGRFYQDLKDRDVTFSPTIENELIKFCREARGKENRLCYIGATDDA ATKIINEVSKPLAHHIPVEKICEKLLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKIL DDWGETCKGCAEKSDYIRKINELMPKYAPKAASARTDL		

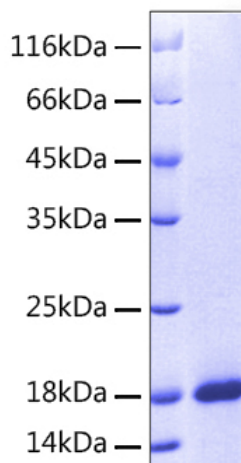
Product information

Source	<i>E. coli</i>
Purity	> 95% by SDS-PAGE.
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

The protein is localized in the endoplasmic reticulum (ER) and golgi, and is also secreted. Reducing expression of this protein increases susceptibility to ER stress-induced death and results in cell proliferation. Activity of this protein is important in promoting the survival of dopaminergic neurons. The presence of polymorphisms in the N-terminal arginine-rich region, including a specific mutation that changes an ATG start codon to AGG, have been reported in a variety of solid tumors; however, these polymorphisms were later shown to exist in Normal tissues and are thus no longer thought to be tumor-related.

SDS-PAGE



Bioactivity

Recombinant Human MANF was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 18 kDa.