Myotrophin (MTPN) Dog Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myotrophin (MTPN), Recombinant Protein
Full Product Name	Recombinant Dog Myotrophin (MTPN)
Product Gene Name	MTPN recombinant protein
Product Synonym Gene Name	MTPN
Sequence	CDKEFMWALK NGDLDEVKDY VAKGEDVNRT LEGGRKPLHY AADCGQLEIL EFLLLKGADI NAPDKHHITP LLSAVYEGHV SCVKLLLSKG ADKTVKGPDG LTAFEATDNQ AIKALLQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	12,895 Da
Sequence Positions	2-118, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q863Z4
Species	Canis familiaris (Dog) (Canis lupus familiaris)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MTPN recombinant protein	The transcript produced from this gene is bi-cistronic and can encode both myotrophin and leucine zipper protein 6. The myotrophin protein is associated with cardiac hypertrophy, where it is involved in the conversion of NFkappa B p50-p65 heterodimers to p50-p50 and p65-p65 homodimers. This protein also has a potential function in cerebellar morphogenesis, and it may be involved in the differentiation of cerebellar neurons, particularly of granule cells. A cryptic ORF at the 3 end of this transcript uses a novel internal ribosome entry site and a non-AUG translation initiation codon to produce leucine zipper protein 6, a 6.4 kDa tumor antigen that is associated with myeloproliferative disease.
Other Notes	Small volumes of MTPN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MTPN purchase	MBS1353902 is a recombinant protein targeting MTPN. Also known as Recombinant Dog Myotrophin (MTPN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTPN. It may not necessarily be applicable to this product.

NCBI GI #	50950227
NCBI GeneID	403487

NCBI Accession #	NP_001002989.1
UniProt Primary Accession #	Q863Z4
UniProt Related Accession #	Q863Z4
GenBank Nucleotide #	NM_001002989.1
NCBI Official Full Name	myotrophin
NCBI Official Synonym Full Names	myotrophin
NCBI Official Symbol	MTPN
UniProt Protein Name	Myotrophin
Protein Family	Myotrophin
UniProt Gene Name	MTPN
NCBI Protein Information	myotrophin
UniProt Comments for MTPN	Promotes dimerization of NF-kappa-B subunits and regulates NF-kappa-B transcription factor activity. Promotes growth of cardiomyocytes, but not cardiomyocyte proliferation. Promotes cardiac muscle hypertrophy. Plays a role in the regulation of the growth of actin filaments. Inhibits the activity of the F-actin-capping protein complex formed by the CAPZA1 and CAPZB heterodimer ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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