Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

Recombinant human Myotrophin / MTPN protein

#### **Product overview**

Name Cat No	Recombinant human Myotrophin / MTPN protein HB9734	
Biological description	Factor that stimulates protein synthesis and cardiomyocyte growth to commence cardiac hypertrophy by activating the NF-kappaB signaling cascade.	
Species of origin	human	
Alternative names Purity	Recombinant Human Myotrophin, Protein V-1, GCDP, Myotrophin, FLJ31098, FLJ99857. >90%	
Description	Factor that stimulates myocyte growth	

## **Solubility & Handling**

Handling	<ul> <li>Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions.</li> </ul>
	<ul> <li>Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.</li> </ul>
	<ul> <li>For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.</li> </ul>
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

## **Chemical Data**

UniProt ID	P58546
Source	E. Coli.
Appearance	Colourless solution (sterile filtered)
Formulation	Solution containing Tris-HCI (20mM, pH8) and 10% glycerol

### References

#### Myotrophin in human cardiomyopathic heart

Sil P *et al* (1993) Circ Res 73(1) **PubMedID** 8508536

#### Influence of p53 in the transition of myotrophin-induced cardiac hypertrophy to heart failure

Das B *et al* (2010) Cardiovasc Res 87(3) **PubMedID** 20202977

#### Cardiac overexpression of myotrophin triggers myocardial hypertrophy and heart failure in transgenic mice

Sarkar S *et al* (2004) J Biol Chem 279(19) **PubMedID** 14970239