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## DATASHEET

### Recombinant human Myotrophin / MTPN protein

#### Product overview

Name	Recombinant human Myotrophin / MTPN protein
Cat No	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	Recombinant Human Myotrophin, Protein V-1, GCDP, Myotrophin, FLJ31098, FLJ99857.
Purity	>90%
Description	Factor that stimulates myocyte growth

#### Solubility & Handling

Handling	<ul style="list-style-type: none"><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><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><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-HCl (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](#)

