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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	• 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. • 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. • 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.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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