

# Recombinant Human Myotrophin, His-tagged

**Cat. No.** MTPN-2731H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human MTPN, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =15.0 kDa(138aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                      |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>              | MTPN (myotrophin), an ankyrin repeat protein, is stimulates protein synthesis and cardiomyocyte growth to initiate cardiac hypertrophy by activating the NF-kappaB signaling cascade. This protein plays a potential role in cerebellar morphogenesis and may function in differentiation of cerebellar neurons, particularly of granule cells. Elevated levels of MTPN are expressed in human dilated cardiomyopathic and ischemic hearts. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHH SSGLVPRGSH MCDKEFMWAL KNGDLDEVKD YVAKGEDVNR<br>TLEGGRKPLH YAADCGQLEI LEFLLLKGAD INAPDKHHIT PLLSAVYEGH<br>VSCVKLLLSK GADKTVKGPDGLTAFEATDN QAIKALLQ                                                                                                                                                                                                                                                                                 |
| <b>Form</b>                     | Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                   | > 90% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>                  | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and                                                                                                                                                                                                                                                                                                                                                            |

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store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| Gene Name           | MTPN myotrophin [ Homo sapiens ]                                                                               |
| Synonyms            | MTPN; myotrophin; V-1; GCDP; FLJ31098; FLJ99857; protein V-1; granule cell differentiation protein; MYOTROPHIN |
| Gene ID             | 136319                                                                                                         |
| mRNA Refseq         | NM_145808                                                                                                      |
| Protein Refseq      | NP_665807                                                                                                      |
| MIM                 | 606484                                                                                                         |
| UniProt ID          | P58546                                                                                                         |
| Chromosome Location | 7q33                                                                                                           |
| Function            | protein binding                                                                                                |

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