

## Recombinant Human MLN

Cat. No. MLN-27721TH    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Motilin with N terminal proprietary tag; Predicted MW 38.72kDa.                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 115 amino acids                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a small peptide hormone that is secreted by cells of the small intestine to regulate gastrointestinal contractions and motility. Proteolytic processing of the secreted protein produces the mature peptide and a byproduct referred to as motilin-associated peptide (MAP). Three transcript variants encoding different preproprotein isoforms but the same mature peptide have been found for this gene. |
| <b>Molecular Weight</b> | 38.720kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                     |

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**Sequences of amino acids**

MVSRKAVAALLVVHAAAMLASQTEAFVPIFTYGELQRMQE KERNKGQKKSLSVWQ  
 RSGEEGPVDPAEPIREEENEMIKLT APLEIGMRMNSRQLEKYPATLEGLLSEMLPQH  
 AAK

**Sequence Similarities**

Belongs to the motilin family.

## GENE INFORMATION

**Gene Name**

MLN motilin [ Homo sapiens ]

**Official Symbol**

MLN

**Synonyms**

MLN; motilin; prepromotilin;

**Gene ID**

4295

**mRNA Refseq**

NM\_001040109

**Protein Refseq**

NP\_001035198

**MIM**

158270

**Uniprot ID**

P12872

**Chromosome Location**

6p21.31

**Pathway**

Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem;

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|-----------------|-------------------------------------|
| <b>Function</b> | hormone activity; receptor binding; |
|-----------------|-------------------------------------|