

# Recombinant Human HPN

**Cat. No.** HPN-26788TH    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length Human Hepsin with a N terminal proprietary tag. Predicted MW 67.69kDa.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>      | 378 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>        | This gene encodes a type II transmembrane serine protease. The encoded protein has an extracellular region that consists of two domains, a catalytic serine protease domain and a non-catalytic scavenger receptor cysteine-rich domain. This protein may be involved in diverse cellular functions including blood coagulation, maintenance of cell morphology and the growth and progression of certain cancers, particularly prostate cancer. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Weight</b>   | 67.690kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue specificity</b> | Present in most tissues, with the highest level in liver.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage buffer</b>     | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                         |
| <b>Sequences of amino acids</b> | VAVLLRSDQEPLYPVQVSSADARLMVFDKTEGTWRLCSS RSNARVAGLSCEEMG<br>FLRALTHSELDVRTAGANGTSGFFC VDEGRLPHTQRLLEVISVCDPCRGRFLAaicQ<br>DCGRRKLP VDRIVGGRDTSLG RWPWQVSLRYDGAHL CGGSLLSGDWVL TAAHCF<br>PERNRVLSRWRVFAGAVAQASPHGLQLGVQAVVY HGGYLPFRDPNSEENSNDIAL<br>VHLSSPLPLTEYIQPVCLP AAGQALVDGKICTVTGWGNTQYYGQQAGVLQEARVP II<br>SN DVCNGADFYGNQIKPKMF CAGYPEGGIDACQGDSGGPFAC EDSISRTPRWRL<br>CGIVSWG TGCA LAQKPGVYTKVSDFREW IFQA IKTHSEASGMVTQL |
| <b>Sequence Similarities</b>    | Belongs to the peptidase S1 family.Contains 1 peptidase S1 domain.Contains 1 SRCR domain.                                                                                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HPN hepsin [ Homo sapiens ]                                                     |
| <b>Official Symbol</b> | HPN                                                                             |
| <b>Synonyms</b>        | HPN; hepsin; serine protease hepsin; TMPRSS1; transmembrane protease; serine 1; |
| <b>Gene ID</b>         | 3249                                                                            |
| <b>mRNA Refseq</b>     | NM_002151                                                                       |
| <b>Protein Refseq</b>  | NP_002142                                                                       |
| <b>MIM</b>             | 142440                                                                          |
| <b>Uniprot ID</b>      | P05981                                                                          |

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome<br/>Location</b> | 19q11-q13.2                                                                                                                                                |
| <b>Function</b>                | peptidase activity; scavenger receptor activity; serine-type endopeptidase activity;<br>serine-type exopeptidase activity; serine-type peptidase activity; |