

# Active GMP Recombinant Human HPN Protein

**Cat. No.** HPN-147HG    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human HPN, Arg45-Leu417 (Asp161Glu & Arg162Lys), with a C-terminal 10-His tag was produced in NS0 cell under cGMP guidelines.               |
| <b>Species</b>                      | Human                                                                                                                                                   |
| <b>Source</b>                       | Mammalian Cells                                                                                                                                         |
| <b>ProteinLength</b>                | 45-417 a.a.                                                                                                                                             |
| <b>Form</b>                         | Supplied as a 0.2 µm filtered solution in Sodium Acetate and NaCl.                                                                                      |
| <b>Bio-activity</b>                 | Measured by its ability to cleave tert-butoxycarbonyl-Gln-Arg-Arg-7-amino-4-methylcoumarin (Boc-QRR-AMC). The specific activity is >20,000 pmol/min/µg. |
| <b>Molecular Mass</b>               | Predicted Molecular Mass: 42 kDa<br>SDS-PAGE: 40-43 kDa, reducing conditions                                                                            |
| <b>N-terminal Sequence Analysis</b> | Arg45-Ser-Asp-Gln-Glu-Pro-Leu-Tyr-Pro-Val                                                                                                               |
| <b>Endotoxin</b>                    | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                      |
| <b>Purity</b>                       | >95%, by SDS-PAGE with silver staining, under reducing conditions.                                                                                      |
| <b>Storage</b>                      | Avoid repeated freeze-thaw cycles.                                                                                                                      |

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12 months, -20 to -70 centigrade as supplied.  
 1 month, 2 to 8 centigrade under sterile conditions after reconstitution.  
 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Quality Statement**

Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.

**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; transmembrane protease serine 1; serine protease hepsin catalytic chain; serine protease hepsin non-catalytic chain; |
| <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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