

## 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 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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