

Active GMP Recombinant Human HPN Protein

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

SPECIFICATION

Product Overview	Recombinant Human HPN, Arg45-Leu417 (Asp161Glu & Arg162Lys), with a C-terminal 10-His tag was produced in NS0 cell under cGMP guidelines.
Species	Human
Source	Mammalian Cells
ProteinLength	45-417 a.a.
Form	Supplied as a 0.2 µm filtered solution in Sodium Acetate and NaCl.
Bio-activity	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.
Molecular Mass	Predicted Molecular Mass: 42 kDa SDS-PAGE: 40-43 kDa, reducing conditions
N-terminal Sequence Analysis	Arg45-Ser-Asp-Gln-Glu-Pro-Leu-Tyr-Pro-Val
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	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

Gene Name	HPN hepsin [Homo sapiens]
Official Symbol	HPN
Synonyms	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;
Gene ID	3249
mRNA Refseq	NM_002151
Protein Refseq	NP_002142
MIM	142440
UniProt ID	P05981

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