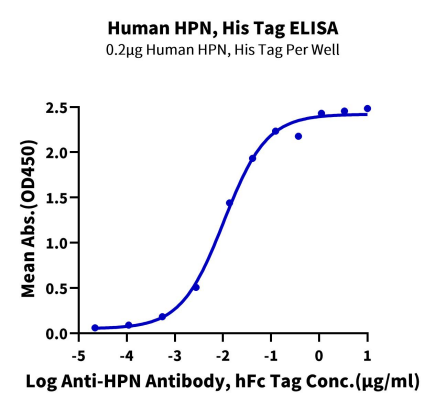
Bioactive HuPro®

HPN (Human) Recombinant Protein

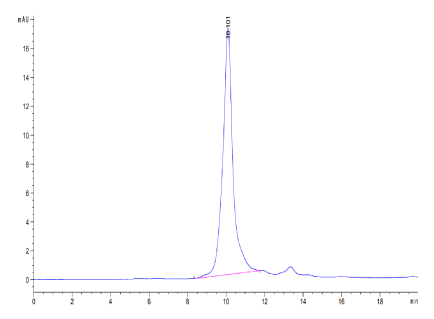
Catalog # P9895 Size 100 ug

Applications



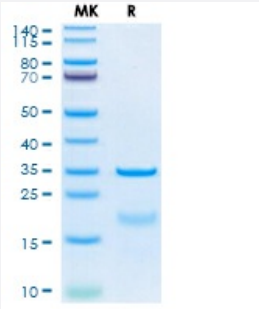
Enzyme-linked Immunoabsorbent Assay

Immobilized Human HPN, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-HPN Antibody, hFc Tag with the EC50 of 10.4 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human HPN is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human HPN on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

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Product Description	Human HPN (P05981, Arg45-Leu417) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Arg45-Leu417
Host	Human
Theoretical MW (kDa)	42
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 10.4 ng/mL, messured by ELISA at 2 ug/mL.
Isotype	PGF (Human) Recombinant Protein
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human HPN is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human HPN on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human HPN, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-HPN Antibody, hFc Tag with the EC50 of 10.4 ng/mL determined by ELISA.

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- SDS-PAGE

Gene Info — HPN

Entrez GeneID	3249
Protein Accession#	P05981
Gene Name	HPN
Gene Alias	TMPRSS1
Gene Description	hepsin
Omim ID	142440
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	transmembrane protease, serine 1

Disease

- Aneurysm
- Aortic Aneurysm
- Genetic Predisposition to Disease
- Intracranial Aneurysm
- Neoplasm Invasiveness
- Prostate cancer
- Prostatic Neoplasms
- Subarachnoid Hemorrhage

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