

# Human HPN Protein

Cat. No. HPN-HM101



## Description

Source	Recombinant Human HPN Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Arg45-Leu417.
Accession	P05981
Molecular Weight	The protein has a predicted MW of 42 kDa. Due to the protein cleaved into the following two chains, so it migrates to 18-22 kDa and 30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

## Formulation and Storage

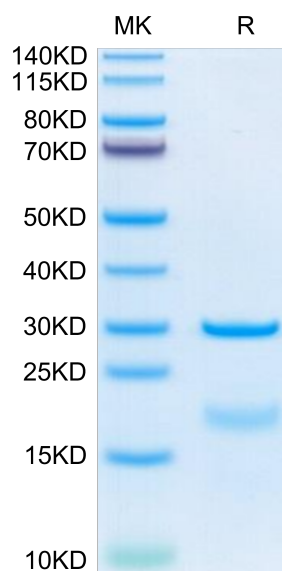
Formulation	Lyophilized from 0.22µm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in 20mM NaAc, 150mM NaCl (pH 5.0). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Home parenteral nutrition (HPN) has been proposed as the treatment of choice in patients suffering from intestinal failure (IF) and has been claimed to improve survival and quality of life either in patients with benign disorders or even in those with malignancies. HPN seems to have beneficial effect but it should be considered with caution by the physicians who should take into account the indications of each patient to receive parenteral nutrition, the underlying disease and prognosis and the access of each patient to home care services.

## Assay Data

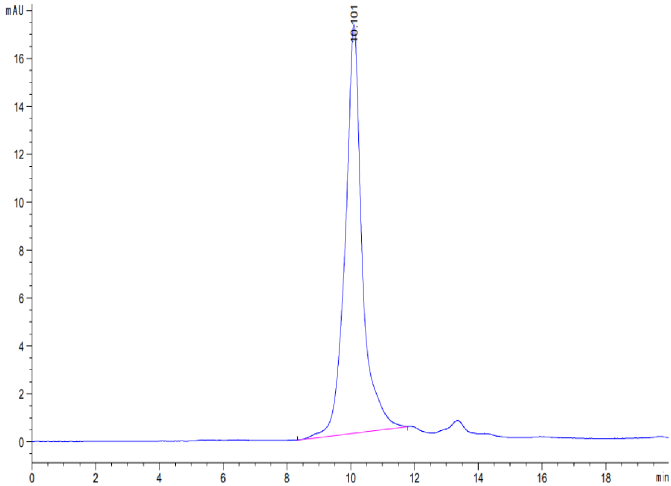
### Bis-Tris PAGE



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

### SEC-HPLC

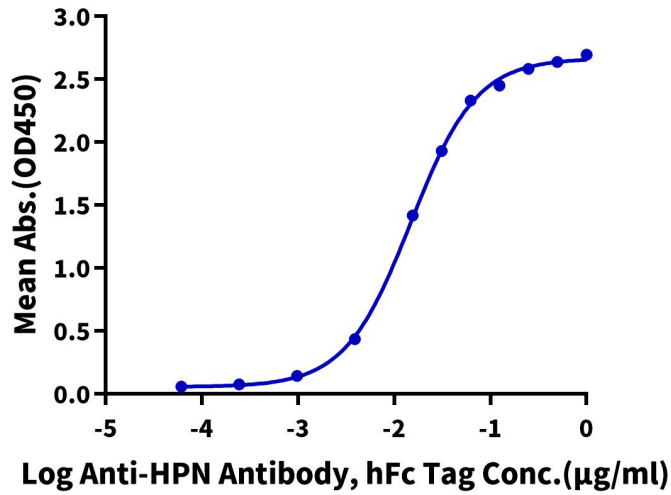
Assay Data



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

ELISA Data

**Human HPN, His Tag ELISA**  
0.2µg Human HPN, His Tag Per Well



Immobilized Human HPN, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-HPN Antibody, hFc Tag with the EC50 of 14.9ng/ml determined by ELISA.