Human Azurocidin/CAP37/AZU1/HBP Protein, Ultra Low Endotoxin

Cat. No.　　HBP-HM101-UL

KACTUS

Description

Source	Recombinant Human Azurocidin/CAP37/AZU1 /HBP Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ile27-Pro250.
Accession	P20160
Molecular Weight	The protein has a predicted MW of 25.3 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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 0.22 µm filtered solution in 20mM PB, 500mM NaCl (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. 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

Heparin-binding protein (HBP), also known as cationic antimicrobial protein 37 (CAP37) and Azurocidin, is a member of the serine protease family that includes Cathepsin G, neutrophil elastase (NE), and proteinase 3 (PR3). This is a neutrophil granule-derived antibacterial and monocyte- and fibroblast-specific chemotactic glycoprotein. Binds heparin. The cytotoxic action is limited to many species of Gram-negative bacteria; this specificity may be explained by a strong affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope.
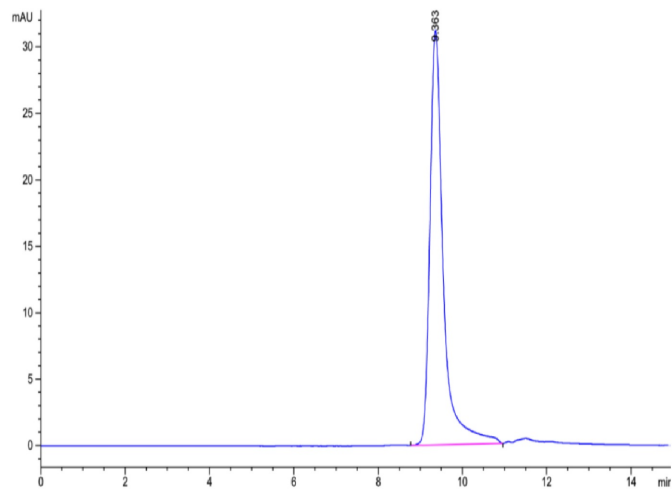
Assay Data

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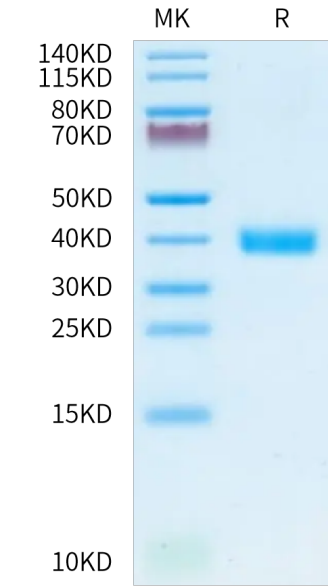
Human Azurocidin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

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