

# Human Azurocidin/CAP37/AZU1/HBP Protein

Cat. No. HBP-HM101

## Description

<b>Source</b>	Recombinant Human Azurocidin/CAP37/AZU1 /HBP Protein is expressed from Expi293 with His tag at the C-terminal. It contains Ile27-Pro250 .
<b>Accession</b>	P20160
<b>Molecular Weight</b>	The protein has a predicted MW of 25.3 kDa. Due to glycosylation, the protein migrates to 38-50 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

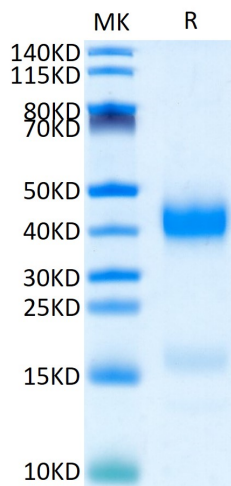
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 20mM PB,500mM NaCl (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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

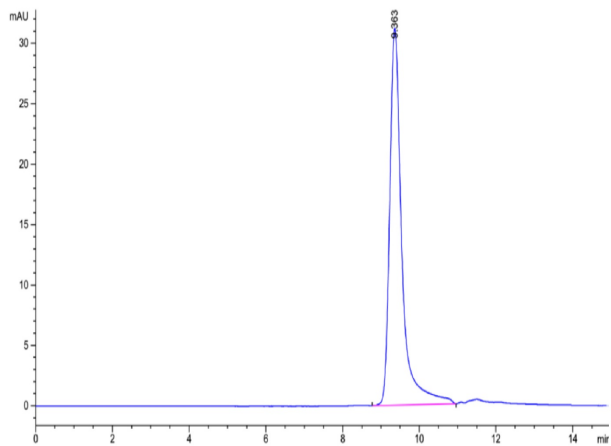
### Tris-Bis PAGE



Human Azurocidin on Tris-Bis 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.