



## Synonym

AZU1, Azurocidin, HBP, AZAMP, AZU, CAP37, HUMAZUR, NAZC

## Source

Human Azurocidin, His Tag (AZ1-H5225) is expressed from human 293 cells (HEK293). It contains AA Ile 27 - Pro 250 (Accession # [AAH69495](#)).

Predicted N-terminus: Ile 27

## Molecular Characterization

AZU1(Ile 27 - Pro 250)	Poly-his
AAH69495	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 25.0 kDa. The protein migrates as 34-42 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

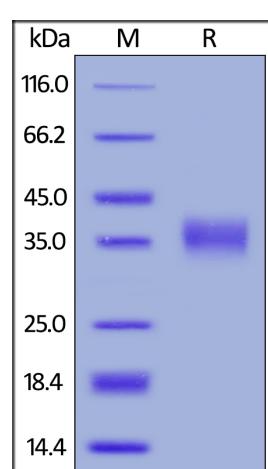
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human Azurocidin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

Azurocidin (AZU1) is also known as Heparin-binding protein (HBP), Cationic antimicrobial protein CAP37, is a neutrophil granule-derived antibacterial and monocyte- and fibroblast-specific chemotactic glycoprotein. which belongs to the peptidase S1 family and elastase subfamily. AZU1 / HBP contains 1 peptidase S1 domain. AZU1 binds heparin. The cytotoxic action of AZU1 is limited to many species of Gram-negative bacteria; this specificity may be explained by a strong

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# Human Azurocidin / CAP37 / AZU1 Protein, His Tag

Catalog # AZ1-H5225



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affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope. AZU1 may play a role in mediating recruitment of monocytes in the second wave of inflammation.

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