

Rev03
 Update: Aug,08,2025
DATASHEET

Azurocidin/CAP37/AZU1/HBP, His, Human

Cat. No.: Z05049

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Azurocidin/CAP37/AZU1/HBP (Ile27-Pro250)_x000D_ Accession # P20160 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	HEK293
Theoretical Molecular Weight	25.3 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in 20mM PB, 500mM NaCl (pH 7.4)。
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

Synonyms : CAP37; AZU; AZU1; Azurocidin; HBP; AZAMP; HUMAZUR; NAZC; azurocidin 1

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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