

## Azurocidin

Catalog No: #AP79015

Package Size: #AP79015-1 50ug #AP79015-2 100ug #AP79015-3 1mg

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## Description

|                    |  |
|--------------------|--|
| Product Name       | Azurocidin   |
| Brief Description  | Recombinant Protein  |
| Host Species       | Mammalian Cell   |
| Purification       | Greater than 90% by SDS-PAGE   |
| Species Reactivity | Human  |
| Immunogen Type     | Recombinant Protein  |
| Other Names        | Cationic antimicrobial protein CAP37, Heparin-binding protein, HBP   |
| Accession No.      | P20160 Gene name: AZU1   |
| Uniprot            | P20160   |
| GeneID             | 566;   |
| Tag Info           | His  |
| Target Sequence    | IVGGRKARPRQFPFLASIQNQGRHFCGGALIHARFVMTAASCFQSQNPGVSTVVLGAYDLRRRERQSRQTFSI<br>SSMSENGYDPQQNLNDLMLLQLDREANLTSSVTILPLPLQNAIVEAGTRCQVAGWGSQRSGGRLSRFPRFV<br>NVTVPEDQCRPNNVCTGVLTRGGICNGDGGTPLVCEGLAHGVASFSLGPCGRGPDFFTRVALFRDWIDG<br>VLNNPGP |
| Formulation        | 50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole, 10% glycerol (pH 8.0)  |
| Storage            | Store at -20°C. (Avoid repeated freezing and thawing.) Repeated freezing and thawing is not recommended.<br>Store working aliquots at 4°C for up to one week.  |

## Background

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. It may play a role in mediating recruitment of monocytes in the second wave of inflammation. Has antibacterial activity against the Gram-negative bacterium *P.aeruginosa*, this activity is inhibited by LPS from *P.aeruginosa*. Acting alone, it does not have antimicrobial activity against the Gram-negative bacteria *A.actinomycetemcomitans* ATCC 29532, *A.actinomycetemcomitans* NCTC 9709, *A.actinomycetemcomitans* FDC-Y4, *H.aphrophilus* ATCC 13252, *E.corrodens* ATCC 23834, *C.sputigena* ATCC 33123, *Capnocytophaga* sp ATCC 33124, *Capnocytophaga* sp ATCC 27872 or *E.coli* ML-35. Has antibacterial activity against *C.sputigena* ATCC 33123 when acting synergistically with either elastase or cathepsin G.

## References

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Note: This product is for in vitro research use only