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**Recombinant Human Azurocidin/CAP37/HBP Protein(C-6His)****Cat.NO.: TP05442**

3th Edition

**Synonyms:**Azurocidin; Cationic Antimicrobial Protein CAP37; Heparin-Binding Protein; HBP; AZU1

**Description:**Azurocidin is an Azurophil granule antibiotic protein, with monocyte chemotactic and antibacterial activity. The Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. Azurocidin is a member of the serine protease family that includes Cathepsin G, Neutrophil Elastase (NE), and Proteinase 3 (PR3), however, Azurocidin is not a serine proteinase since the active site serine and histidine residues are replaced. Human Azurocidin together with NE and PR3 are expressed coordinately and are packaged together into azurophil granules during neutrophil differentiation. Azurocidin has been identified as a modulator of endothelial permeability and an important multifunctional inflammatory mediator. Neutrophils arriving first at sites of inflammation release Azurocidin which acts in a paracrine fashion on endothelial cells causing the development of intercellular gaps and allowing leukocyte extravasation. Azurocidin thus be regarded as a reasonable therapeutic target for a variety of inflammatory disease conditions.

**Form:**PBS**Molecular Weight:**25.2 kDa**Sequences:**Ile27-Pro250**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.