

Recombinant Human Azurocidin/CAP37/AZU1 Protein

Catalog No.: RP00196 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	566	P20160

Tags

C-His

Synonyms

AZU1;AZAMP;AZU;CAP37;HBP;HUMAZUR;
NAZC;hHBP

Product Information

Source	Purification
HEK293 cells	> 85% by SDS-PAGE.

Calculated MW	Observed MW
25.05 kDa	40 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Azurocidin (AZU1), also known as heparin-binding protein (HBP) or cationic antimicrobial protein 37 (CAP37), 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). Azurocidin has also been identified as a modulator of endothelial permeability. 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. These findings imply that Azurocidin may be a reasonable therapeutic target for a variety of inflammatory disease conditions.

Basic Information

Description

Recombinant Human Azurocidin/CAP37/AZU1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile27-Pro250) of human AZU1/Azurocidin 1/CAP37 (Accession #NP_001691.1) fused with a 6xHis tag at the C-terminus.

Bio-Activity

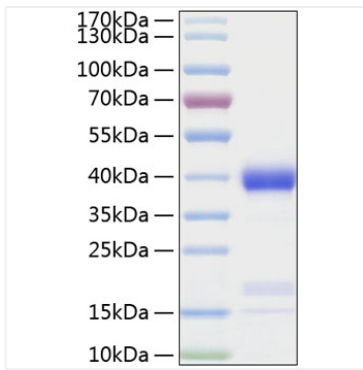
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Azurocidin/CAP37/AZU1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 39 kDa.