

Recombinant Human Azurocidin/CAP37/AZU1 Protein

Catalog No.: RP00196

Sequence Information

Species **Gene ID**
Human 566

Swiss Prot **Tags**
P20160 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 85 % as
determined 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.

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 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

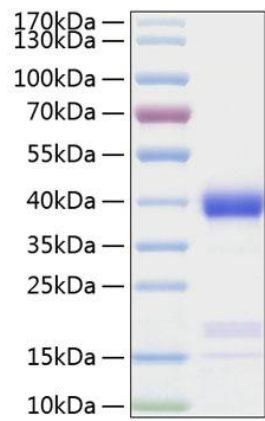
Contact

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Validation Data



Recombinant Human Azurocidin/CAP37/AZU1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.