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Datasheet for ABIN7519695 Azurocidin Protein (His tag)

Overview

Quantity:	20 µg
Target:	Azurocidin (AZU1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Azurocidin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Azurocidin/CAP37/AZU1 Protein
Sequence:	IVGGRKARPR QFPFLASIQN QGRHFCGGAL IHARFVMTAA SCFQSQNPGV STVVLGAYDL RRRERQSRQT FSISSMSENG YDPQQNLNDL MLLQLDREAN LTSSVTILPL PLQNATVEAG TRCQVAGWGS QRSGGRLSRF PRFVNVTVTP EDQCRPNPNC TGVLTTRGGI CNGDGGTPLV CEGLAHGVAS FSLGPCGRGP DFFTRVALFR DWIDGVLNNP GPGP
Specificity:	Ile27-Pro250
Purity:	> 85 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	Azurocidin (AZU1)
Alternative Name:	Azurocidin/CAP37/AZU1 (AZU1 Products)

Target Details

Background:	<p>Description: 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.</p> <p>Name: AZU1,AZAMP,AZU,CAP37,HBP,HUMAZUR,NAZC,hHBP</p>
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Gene ID:	566
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UniProt:	P20160
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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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.
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Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
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Storage:	-20 °C,-80 °C
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Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>
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