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Datasheet for ABIN1096068

Azurocidin Protein (AA 27-250) (His tag)

Overview

Quantity:	50 µg
Target:	Azurocidin (AZU1)
Protein Characteristics:	AA 27-250
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Azurocidin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Azurocidin/CAP37/HBP (C-6His)
Sequence:	IVGGRKARPR QFPFLASIQN QGRHFCCGAL IHARFVMTAA SCFQSQNPGV STVVLGAYDL RRRERQSRQT FSISSMSENG YDPQQNLNDL MLLQLDREAN LTSSVTILPL PLQNATVEAG TRCQVAGWGS QRSGGRLSRF PRFVNVTVTP EDQCRPNNVV TGVLTRGGI CNGDGGTPLV CEGLAHGVAS FSLGPCGRGP DFFTRVALFR DWIDGVLNNP GPGPVDHHHH HH
Characteristics:	Recombinant Human Azurocidin produced by transfected human cells is a secreted protein with sequence (Ile27-Pro250) of Human AZU1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Azurocidin (AZU1)
Alternative Name:	cap37 (AZU1 Products)
Sub Type:	Fusionprotein
Background:	<p>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.</p> <p>Alternative Names: Azurocidin, Cationic Antimicrobial Protein CAP37, Heparin-Binding Protein, HBP, AZU1</p>
Molecular Weight:	25.24 kDa
UniProt:	P20160

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months
