

Azurocidin Protein, Human (HEK293, His)

Cat. No.:	HY-P7624
Synonyms:	rHuAzurocidin, His; Azurocidin; Cationic Antimicrobial Protein CAP37; Heparin-Binding Protein
Species:	Human
Source:	HEK 293
Accession:	P20160 (I27-P250)
Gene ID:	566
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	<pre> I V G G R K A R P R Q F P F L A S I Q N Q G R H F C G G A L I H A R F V M T A A S C F Q S Q N P G V S T V V L G A Y D L R R R E R Q S R Q T F S I S S M S E N G Y D P Q Q N L N D L M L L Q L D R E A N L T S S V T I L P L P L Q N A T V E A G T R C Q V A G W G S Q R S G G R L S R F P R F V N V T V T P E D Q C R P N N V C T G V L T R R G G I C N G D G G T P L V C E G L A H G V A S F S L G P C G R G P D F F T R V A L F R D W I D G V L N N P G P G P H H H H H H </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM HEPES, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Azurocidin, released from PMN secretory vesicles or primary granules, acts as a chemoattractant and activator of monocyte and macrophages. The functional consequence is enhancement of cytokine release and bacterial phagocytosis, allowing for a more efficient bacterial clearance. Leukocyte activation by Azurocidin is mediated via β2-integrins, and Azurocidin-induced chemotaxis is dependent on formyl-peptide receptors. In addition, Azurocidin activates endothelial cells leading to vascular leakage and edema formation. For these reasons, targeting azurocidin release and its actions may have therapeutic</p>
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potential in inflammatory disease conditions^[1].

REFERENCES

[1]. Oliver Soehnlein, et al. Neutrophil-derived azurocidin alarms the immune system. J Leukoc Biol. 2009 Mar;85(3):344-51.

Caution: Product has not been fully validated for medical applications. For research use only.

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