AZGP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70016
Synonyms:	rHuZinc-alpha-2-glycoprotein/AZGP1, His; Zinc-Alpha-2-Glycoprotein; Zn-Alpha-2-GP; Zn-Alpha-2-Glycoprotein; AZGP1; ZAG; ZNGP1
Species:	Human
Source:	HEK293
Accession:	P25311 (Q21-S298)
Gene ID:	563
Molecular Weight:	Approximately 39-42 kDa

PROPERTIES

AA Sequence	Q E N Q D G R Y S L T Y I Y T G L S K H V E D V P A F Q A L G S L N D L Q F F R Y N S K D R K S Q P M G L W R Q V E G M E D W K Q D S Q L Q K A R E D I F M E T L K D I V E Y Y N D S N G S H V L Q G R F G C E I E N N R S S G A F W K Y Y Y D G K D Y I E F N K E I P A W V P F D P A A Q I T K Q K W E A E P V Y Y V Q R A K A Y L E E E C P A T L R K Y L K Y S K N I L D R Q D P P S V V V T S H Q A P G E K K K L K C L A Y D F Y P G K I D V H W T R A G E V Q E P E L R G D V L H N G N G T Y Q S W V V V A V P P Q D T A P Y S C H V Q H S S L A Q P L V V P W E A S
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of MC3T3-E1 mouse preosteoblast cells. The ED_{50} for this effect is 0.0948 μg/mL , corresponding to a specific activity is 1.055×10^4 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). 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	CaCarboxypeptidase B2 (CPB2) plays a critical role in physiological regulation, particularly within the circulatory system. The enzyme exhibits specificity in cleaving C-terminal arginine or lysine residues from biologically active peptides, including

kinins and anaphylatoxins, thereby finely tuning their activities and downstream signaling in the circulation. Additionally, CPB2 is instrumental in the down-regulation of fibrinolysis by selectively removing C-terminal lysine residues from fibrin that has undergone partial degradation by plasmin. This dual functionality underscores CPB2's pivotal role in maintaining the balance of peptide activities and coagulation processes, emphasizing its significance in orchestrating intricate regulatory mechanisms within the physiological context.

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