Fetuin A/AHSG Protein, Human (HEK293, His)

Cat. No.:	HY-P70170
Synonyms:	rHuAlpha-2-HS-glycoprotein/AHSG, His; Alpha-2-HS-Glycoprotein; Alpha-2-Z-Globulin; Ba-Alpha-2-Glycoprotein; Fetuin-A; AHSG; FETUA
Species:	Human
Source:	HEK293
Accession:	AAH48198.1/NP_001613.2 (A19-V367)
Gene ID:	197
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	A P H G P G L I Y R Q P N C D D P E T E E A A L V A I D Y I N Q N L P W G Y K H T L N Q I D E V K V W P Q Q P S G E L F E I E I D T L E T T C H V L D P T P V A R C S V R Q L K E H A V E G D C D F Q L L K L D G K F S V V Y A K C D S S P D S A E D V R K V C Q D C P L L A P L N D T R V V H A A K A A L A A F N A Q N N G S N F Q L E E I S R A Q L V P L P P S T Y V E F T V S G T D C V A K E A T E A A K C N L L A E K Q Y G F C K A T L S E K L G G A E V A V T C T V F Q T Q P V T S Q P Q P E G A N E A V P T P V V D P D A P P S P P L G A P G L P P A G S P P D S H V L L A A P P G H Q L H R A H Y D L R H T F M G V V S L G S P S G E V S H P R K T R T V V Q P S V G A A A G P V V P P C P G R I R H F K V
Biological Activity	Measured by its ability to inhibit calcium phosphate precipitation. The IC_{50} value is 46.163 μg/mL, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5 or 20 mM PB, 150 mM NaCl, pH 7.4.
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	Fetuin A, also known as AHSG Protein, emerges as a multifaceted player in cellular processes, actively promoting endocytosis and displaying opsonic properties. Its influence extends to the modulation of the mineral phase of bone, reflecting its role in bone homeostasis. With a notable affinity for calcium and barium ions, Fetuin A contributes to ion interactions within cellular environments. The precursor gives rise to the alpha-2-HS glycoprotein upon cleavage of the connecting peptide, and the two chains A and B are intricately linked by a single disulfide bond. This molecular architecture underscores the structural complexity of Fetuin A and its potential impact on various physiological processes, warranting further investigation to unveil the detailed mechanisms underlying its diverse functionalities in cellular and bone biology.

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