Fetuin B Protein, Human (367a.a, HEK293, His)

Cat. No.:	HY-P70930
Synonyms:	Fetuin-B; 16G2; Fetuin-Like Protein IRL685; Gugu; FETUB
Species:	Human
Source:	HEK293
Accession:	Q9UGM5 (C16-P382)
Gene ID:	26998
Molecular Weight:	53-55 kDa

PROPERTIES

AA Sequence	C G A M S P P Q L A L N P S A L L S R G C N D S D V L A V A G F A L R D I N K D R K D G Y V L R L N R V N D A Q E Y R R G G L G S L F Y L T L D V L E T D C H V L R K K A W Q D C G M R I F F E S V Y G Q C K A I F Y M N N P S R V L Y L A A Y N C T L R P V S K K K I Y M T C P D C P S S I P T D S S N H Q V L E A A T E S L A K Y N N E N T S K Q Y S L F K V T R A S S Q W V V G P S Y F V E Y L I K E S P C T K S Q A S S C S L Q S S D S V P V G L C K G S L T R T H W E K F V S V T C D F F E S Q A P A T G S E N S A V N Q K P T N L P K V E E S Q Q K N T P P T D S P S K A G P R G S V Q Y L P D L D D K N S Q E K G P Q E A F P V H L D L T T N P Q G E T L D I S F L F L E P M E E K L V V L P F P K E K A R T A E C P G P A Q N A S P L V L P P
Biological Activity	Measured by its ability to inhibit active Cathepsin V cleavage of a fluorogenic peptide substrate Z-Leu-Arg-AMC. The IC_{50} value is 21.16 nM, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2 or PBS, 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 B emerges as a crucial protease inhibitor essential for egg fertilization. Its primary role is to prevent premature hardening of the zona pellucida before fertilization, a critical process for successful embryonic development. This function is likely mediated through the inhibition of the protease activity of ASTL, a key enzyme responsible for cleaving ZP2 and triggering the hardening of the zona pellucida. Fetuin B's regulatory role in this process highlights its significance in facilitating the proper conditions for successful fertilization and subsequent embryonic development.

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