

AHSG/Fetuin-A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70339
Synonyms:	rMuAlpha-2-HS-glycoprotein/Fetuin A, His; Alpha-2-HS-glycoprotein; Ahsg; Countertrypin; Fetuin-A; Fetua
Species:	Mouse
Source:	HEK293
Accession:	P29699 (A19-I345)
Gene ID:	11625
Molecular Weight:	45-71 kDa

PROPERTIES

AA Sequence	<p> A P Q G T G L G F R E L A C D D P E A E Q V A L L A V D Y L N N H L L Q G F K Q V L N Q I D K V K V W S R R P F G V V Y E M E V D T L E T T C H A L D P T P L A N C S V R Q L T E H A V E G D C D F H I L K Q D G Q F R V M H T Q C H S T P D S A E D V R K L C P R C P L L T P F N D T N V V H T V N T A L A A F N T Q N N G T Y F K L V E I S R A Q N V P L P V S T L V E F V I A A T D C T A K E V T D P A K C N L L A E K Q H G F C K A N L M H N L G G E E V S V A C K L F Q T Q P Q P A N A N A V G P V P T A N A A L P A D P P A S V V V G P V V V P R G L S D H R T Y H D L R H A F S P V A S V E S A S G E T L H S P K V G Q P G A A G P V S P M C P G R I R H F K I </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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 is also a multifunctional plasma agent. Fetuin-A plays a role as a physiological inhibitor of insulin receptor tyrosine kinase associated with insulin resistance and a negative acute phase reactant. It also regulates bone remodeling and calcium metabolism being an important inhibitor of calcium salt precipitation and vascular calcifications. Even though it is
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currently considered to be a multi-functional protein , its roles in disease processes such as diabetes and kidney disease as well as its ability to inhibit ectopic calcification have gained the most mileage so far. The potential role of fetuin-A in tumor progression stemmed from earlier studies that suggested that it was the cell attachment factor in serum. Fetuin-A has a diagnostic potential as a biomarker for liver dysfunction, cardiovascular diseases and disorders associated with metabolic syndrome^{[1][2]}.

REFERENCES

[1]. Anna Maria Dabrowska, et al. Fetuin-A (AHSG) and its usefulness in clinical practice. Review of the literature. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2015 Sep;159(3):352-9.

[2]. Josiah Ochieng, et al. Impact of Fetuin-A (AHSG) on Tumor Progression and Type 2 Diabetes. Int J Mol Sci. 2018 Jul 29;19(8):2211.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA