

Recombinant Human AHSG protein, His-tagged

Cat. No. AHSG-7710H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AHSG (Ala19-Val367) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Ala19-Val367
Description	Alpha-2-HS-glycoprotein (AHSG) is also known as Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, Fetuin-A (FETUA), is a glycoprotein that is composed of two subunits, the A and B chains, belongs to the cystatin family of proteases inhibitors and the fetuin class of plasma binding proteins. AHSG/Fetuin A is highly expressed in embryonic cells and adult hepatocytes, and is expressed to a lesser extent in monocytes/macrophages. Fetuins are carrier proteins like albumin. Fetuin-A/AHSG forms soluble complexes with calcium and phosphate and thus is a carrier of otherwise insoluble calcium phosphate. Thus AHSG/Fetuin A is a potent inhibitor of pathological calcification. Fetuin A/FETUA promotes phagocytosis of apoptotic cells and plays a role in bone development, calcium homeostasis and insulin sensitivity. Mice deficient in Fetuin-A show systemic calcification of soft tissues.
Predicted N Terminal	Ala19
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 38.2 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>98% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	AHSG
Official Symbol	AHSG
Synonyms	AHSG; alpha-2-HS-glycoprotein; A2HS; FETUA; HSGA; fetuin-A; alpha-2-Z-globulin; ba-alpha-2-glycoprotein; AHS
Gene ID	197
mRNA Refseq	NM_001622
Protein Refseq	NP_001613

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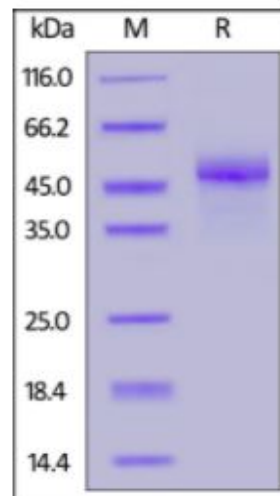
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MIM 138680

UniProt ID P02765

SDS-PAGE of AHSG-7710H



Human Fetuin A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

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