

**Synonym**

AHSG, FETUA, Fetuin A

**Source**

Human Fetuin A, His Tag(FEA-H5221) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Val 367 (Accession # [P02765-1](#)).

Predicted N-terminus: Ala 19

**Molecular Characterization**

Fetuin A(Ala 19 - Val 367)	Poly-his
P02765-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 38.2 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>98% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

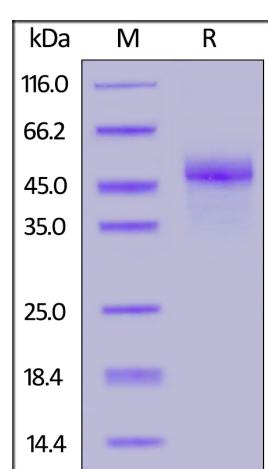
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

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

**Background**

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

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## Human Fetuin A / FETUA Protein, His Tag

Catalog # FEA-H5221



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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.

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