

# Recombinant Human Alpha-2-HS-Glycoprotein

**Cat. No.** AHSG-4356H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The human Alpha-2-HS-Glycoprotein was purified from the human plasma.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	<p>Fetuin is a liver-produced negative acute phase protein composed of two subunits, the A and B chains. Fetuin homologs have been identified in several species including rat, sheep, pig, rabbit, guinea pig, cattle, mouse and human. Multiple physiological roles for these homologs have been suggested, including ability to bind to hydroxyapatite crystals and to specifically inhibit the tyrosine kinase (TK) activity of the insulin receptor (IR). Fetuin-A (alpha2-Heremans-Schmid glycoprotein; AHSG) is an important circulating inhibitor of calcification in vivo, and is downregulated during the acute-phase response. Sera from patients on long-term dialysis with low AHSG concentrations showed impaired ex-vivo capacity to inhibit Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> precipitation. Fetuin may influence the resolution of inflammation by modulating the phagocytosis of apoptotic cells by macrophages. ASHG blocks TGF-beta-dependent signaling in osteoblastic cells, and mice lacking ASHG display growth plate defects, increased bone formation with age, and enhanced cytokine-dependent osteogenesis.</p>
<b>Form</b>	Filtered (0.4µm) and lyophilized from 0.5 mg/ml in PBS pH 7.4.
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Filtered White lyophilized (freeze-dried) powder.

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**Solubility** It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Storage** Store the lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.

**Functions** cysteine-type endopeptidase inhibitor activity; kinase inhibitor activity; protein binding

## GENE INFORMATION

**Gene Name** [AHSG alpha-2-HS-glycoprotein \[ Homo sapiens \]](#)

**Official Symbol** [AHSG](#)

**Synonyms** AHSG; alpha-2-HS-glycoprotein; AHS; A2HS; HSGA; FETUA; fetuin-A; Ba-alpha-2-glycoprotein; Alpha-2-Z-globulin; Alpha-2-HS-glycoprotein chain A; Alpha-2-HS-glycoprotein chain B; PRO2743

**Gene ID** [197](#)

**mRNA Refseq** [NM\\_001622](#)

**Protein Refseq** [NP\\_001613](#)

**MIM** [138680](#)

**UniProt ID** [P02765](#)

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Chromosome	3q27.3
Location	

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