

Recombinant Human Alpha-2-HS-Glycoprotein

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

SPECIFICATION

Product Overview	The human Alpha-2-HS-Glycoprotein was purified from the human plasma.
Species	Human
Source	Human
Description	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 CaxPO₄ 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.
Form	Filtered (0.4µm) and lyophilized from 0.5 mg/ml in PBS pH 7.4.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	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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