

Recombinant Human alpha-2-HS-glycoprotein, His-tagged

Cat. No. AHSG-565H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AHSG, 19-367aa , Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	19-367 a.a.
Description	AHSG, also known as fetuin-A, belongs to the fetuin class of plasma binding proteins. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue. It is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, and it has been postulated that it participates in the development of the tissues. It forms soluble complexes with calcium and phosphate and thus is a carrier of otherwise insoluble calcium phosphate. Recombinant human AHSG protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl, 1mM DTT
Molecular Mass	39.7 kDa(372aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSAPHGPGL IYRQPNCDDEP ETEEAALVAI DYINQNLPGW YKHTLNQIDE VKVWPQQPSG ELFEIEIDTL ETTCHVLDPT PVARCSVRQL KEHAVEGDGD FQLLKLDGKF SVVYAKCDSS PDSAEDVRKV

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CQDCPLLAPL NDTRVVHAAK AALAAFNAQN NGSNFQLEEI SRAQLVPLPP
 STYVEFTVSG TDCVAKEATE AAKCNLLAEK QYGFCKATLS EKLGGAEVAV
 TCTVFQTQPV TSQPQPEGAN EAVPTPVVDP DAPPSPLGA PGLPPAGSPP
 DSHVLLAAPP GHQLHRAHYD LRHTFMGVVS LGSPSGEVSH PRKTRTVVQP
 SVGAAAGPVV PPCPGRIRHF KV

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

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

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](#)

MIM [138680](#)

UniProt ID [P02765](#)

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Chromosome Location	3q27.3
Pathway	BMP receptor signaling, organism-specific biosystem;
Function	cysteine-type endopeptidase inhibitor activity; kinase inhibitor activity; receptor signaling protein tyrosine kinase inhibitor activity;

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