

Active Recombinant Human AHSG Protein

Cat. No. AHSG-469H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AHSG (P02765) partial recombinant protein expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Alpha2-HS glycoprotein (AHSG), a glycoprotein present in the serum, is synthesized by hepatocytes. The AHSG molecule consists of two polypeptide chains, which are both cleaved from a proprotein encoded from a single mRNA. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue. The protein is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, and it has therefore been postulated that it participates in the development of the tissues. However, its exact significance is still obscure. [provided by RefSeq, Jul 2008]
Form	Lyophilized
Bio-activity	Determined by its ability to inhibit Cathespin V cleavage of a fluorogenic peptide substrate Z-LR-AMC (RLUs). The expected IC50 is $\leq 100\text{nM}$.
Molecular Mass	45-55 kDa
AA Sequence	A-Chain:APHGPGLIYRQPNCDDEPETEEAALVAIDYINQNLPWGYKHTLNQIDEVKVW PQQPSGELFEIEIDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFS VVYAKCDSSPDSAEDVRKVCQDCPLLAPLNDTRVVHAAKAALAAFNAQNNGSNFQL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EEISRAQLVPLPPSTYVEFTVSGTDCVAKEATEAAKCNLLAEKQYGFCKATLSEKLG
 GAEVAVTCTVFQTQPVTSPQPPEGANEAVPTPVVDPDAPPSPLGAPGLPPAGSPP
 DSHVLB-Chain:TVVQPSVGAAAGPVVPPCPGRIRHFKV

Endotoxin	Endotoxin level is < 0.1 ng/ug of protein (< 1 EU/ug).
Purity	98%
Applications	Functional Study SDS-PAGE
Usage	Activity assay SDS-PAGE The optimal working dilution should be determined by the end user.
Storage	Store at -20centigrade.Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from solutions contain no sodiun azide nor carrier protein

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

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Protein Refseq	NP_001613
MIM	138680
UniProt ID	P02765

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