



Recombinant Human Fetuin-A (AHSF)

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-140S
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	197
Synonyms:	Alpha-2-HS-glycoprotein, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein

Fetuin A/AHSG is a human plasma glycoprotein belonging to the Cystatin family of proteases inhibitors. It is highly expressed in embryonic cells and adult hepatocytes, and is expressed to a lesser extent in monocytes/macrophages. Fetuin A/AHSG is a major serum protein component that exerts various calcium dependent physiological activities, and can mediate growth signaling in certain tumor cells. It also can act as a natural antagonist against specific TGF-β and BMP signaling proteins, Recombinant human Fetuin-A is a heterodimeric protein containing a 282 amino acid A chain and a 27 amino acid B chain. Due to glycosylation, recombinant Fetuin-A migrates at an apparent molecular weight of 45 – 55 kDa by SDS-PAGE run under non-reducing conditions.

Sequence

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APHGPGLIYR QPNCDDPETE EAALVAIDYI NQNLPWGYKH
TLNQIDEVKV WPQQPSGELF EIEIDTLETT CHVLDPTPVA
RCSVRQLKEH AVEGDCDFQL LKLDGKFSVV YAKCDSSPDS
AEDVRKVCQD CPLLAPLNDT RVVHAAKAAL AAFNAQNNGS
NFQLEEISRA QLVPLPPSTY VEFTVSGTDC VAKEATEAAK
CNLLAEKQYG FCKATLSEKL GGAEVAVTCT VFQTQPVTSQ
PQPEGANEAV PTPVVDPDAP PSPPLGAPGL PFAGSPDSDH
VLTVVQPSVG AAAGPVVPPC PGRIRHFKV

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Database References

Protein RefSeq:	NP_000630.1
Uniprot ID:	P02765
mRNA RefSeq:	NM_001622.2

Product Specifications

Expressed in	HEK 293 cells
Purity	>95% by SDS-PAGE & HPLC analysis
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	309
MW:	45-55 kDa

Biological Activity: Determined by its ability to inhibit Cathepsin V cleavage of a fluorogenic peptide substrate Z-LR-AMC (RLUs). The expected IC50 is ≤ 100nM.



AVOID REPEATED FREEZE AND THAW CYCLES!