

Human Fetuin-A/AHSG (glycosylated, HEK)

Human Fetuin A, alpha-2-HS-glycoprotein, glycosylated; HEK

Synonyms: Alpha-2-HS-glycoprotein, Fetuin-A, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, AHSG, FETUA, AHS, A2HS, HSGA, PRO2743.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	3060.955.010		
50 µg	3060.955.050		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant human Fetuin A produced in HEK cells is a glycosylated heterodimeric protein of 309 amino acids (A-chain with 282 aa; B-chain with 27 aa). It has a molecular mass of 32,9 kDa, but due to glycosylation migrates at 45-55 kDa in SDS-Page under non-reducing conditions. Fetuin A is a human plasma glycoprotein belonging to the Cystatin family of protease inhibitors. It is highly expressed in embryonic cells and adult hepatocytes and is expressed to a lesser extent in monocytes/macrophages. Fetuin A 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.

- **Biological Activity** see below
- **Source** HEK
- **Purity** ≥ 98 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** None*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The IC₅₀ of ≤ 100nM was determined by its ability to inhibit Cathepsin V cleavage of a fluorogenic peptide substrate Z-LR-AMC (RLUs).

Reconstitution

We recommend a quick spin followed by reconstitution in sterile Water at a concentration of 0.1 mg/ml, which can then be further diluted into other aqueous or buffered solutions.

Stability

The lyophilized protein is stable for at least 1 year from date of receipt if stored at -20°C to -80°C. Reconstituted Fetuin A should be stored at 4°C if entire vial will be used within 1-2 weeks. It is stable for least 3 months when stored in working aliquots with a carrier protein at -20°C. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

A-Chain:

APHGPGLIYR QPNCDDPETE EAALVAIDYI NQNLPWGYKH TLNQIDEVKV WPQQPSGELF EIEIDTLETT
 CHVLDPTPVA RCSVRLKEH AVEGDCDFQL LKLDGKFSVV YAKCDSSPDS AEDVRKVCQD CPLLAPLNDT
 RVVHAAKAAL AAFNAQNNGS NFQLEEISRA QLVPLPPSTY VEFTVSGTDC VAKEATEAAK CNLLAEKQYG
 FCKATLSEKL GGAEVAVTCT VFQTQPVTSQ PQPEGANEAV PTPVVDPDAP PSPPLGAPGL PPAGSPPDSH
 VL

B-Chain:

TVVQPSVG AAAGPVVPPC PGRIRHFKV

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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