



Recombinant Protein Technical Manual

Recombinant Human Fetuin-A/AHSG Protein (His Tag)

RPE3695

Product Data:

Product SKU: RPE3695

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P02765

Protein Information:

Molecular Mass: 38.4 kDa

AP Molecular Mass: 60 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Alpha-2-HS-Glycoprotein; Alpha-2-Z-Globulin; Ba-Alpha-2-Glycoprotein; Fetuin-A; AHSG; FETUA

Immunogen Information:

Sequence: Ala19-Val367

Background:

α -2-HS Glycoprotein (AHS_G) is a glycoprotein that is composed of two subunits, the A and B chains, belongs 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. AHS_G is an important circulating inhibitor of calcification *in vivo*, and is downregulated during the acute-phase response. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue. In addition, AHS_G may influence the resolution of inflammation by modulating the phagocytosis of apoptotic cells by macrophages. AHS_G blocks TGF- β -dependent signaling in osteoblastic cells.