



Recombinant Protein Technical Manual

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

RPES3785

Product Data:

Product SKU: RPES3785

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P29699

Protein Information:

Molecular Mass: 36.7 kDa

AP Molecular Mass: 50-60 kDa

Tag: COHis

Bio-activity:

Purity: > 95 % as determined by 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 Tris, 150mM NaCl, pH7.5.

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

Application:

Synonyms: Alpha-2-HS-glycoprotein; Ahsg; Countertrypin; Fetuin-A; Fetua

Immunogen Information:

Sequence: Ala19-Ile345

Background:

Alpha-2-HS-glycoprotein (AHSG) 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. AHSG 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, AHSG may influence the resolution of inflammation by modulating the phagocytosis of apoptotic cells by macrophages. ASHG blocks TGF-beta-dependent signaling in osteoblastic cells.