

Recombinant Mouse Fetuin A/AHSG Protein(Fc Tag)

Catalog Number: PDMM100139



Note: Centrifuge before opening to ensure complete recovery of vial contents.

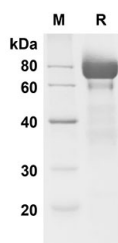
Description

Species	Mouse
Source	Mammalian-derived Mouse Fetuin A/AHSG proteins Ala19-Ile345,with an C-terminal Fc
Mol_Mass	57.6 kDa
Accession	P29699
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse Fetuin A/AHSG proteins ,
2µg/lane of Recombinant Mammalian-derived Mouse Fetuin
A/AHSG proteins Gln35-Ala425 was resolved with SDS-
PAGE under reducing conditions , showing bands at 70-80

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Background

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Rev. V1.5

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Fetuin-A , also known as Alpha-2-HS-Glycoprotein (AHSG) , belongs to the Fetuin family , is a plasma binding protein , and is more abundant in fetal than adult blood. It is involved in several functions , such as endocytosis , brain development and the formation of bone tissue. Fetuins are carrier proteins like albumin. Fetuin-A forms soluble complexes with calcium and phosphate and thus is a carrier of otherwise insoluble calcium phosphate. Thus Fetuin-A is a potent inhibitor of pathological calcification. The circulating levels of fetuin-A , a well-described inhibitor of calcification , regulate the cell-dependent process of osteogenesis. The low circulating fetuin-A levels are associated with a greater prevalence and/or severity of Vascular calcification (VC) and increased risk for all-cause and cardiovascular mortality. However , high circulating fetuin-A levels appear to induce insulin resistance and , in non-dialyzed subjects with diabetic nephropathy , are directly related to VC burden. The emerging role of fetuin-A deficiency as a risk factor in dialysis patients was documented in cross-sectional studies demonstrating a significant correlation with all-cause and cardiovascular mortality. Additionally , Human fetuin-A is a negative acute phase protein involved in inflammatory diseases , thus being a potential physiological regulator of meprin activity. Fetuin-A is a broad-range protease inhibitor. Fetuin-A and cystatin C as endogenous proteolytic regulators of meprin activity broadens our understanding of the proteolytic network in plasma.

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