

重组人 Fetuin A/AHSG 说明书

产品名称

通用名称: 重组人 Fetuin A/AHSG
英文名称: Recombinant Human Fetuin A/AHSG Protein
货号: TL-758

产品信息

同义词: Alpha-2-HS-glycoprotein, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, Human AHS Protein; Human FETUA Protein; Human HSGA Protein;
表达宿主: 人 HEK293 细胞
蛋白序列: DNA 序列编码人 Fetuin A/AHSG (UniProtKB/Swiss-Prot: P02765) 表达带有 His 标签在 C 末端。
分子量: 重组人 Fetuin A/AHSG 包含 381 个氨基酸, 预测的理论分子量为 41kd, 还原性 SDS-PAGE 的分子量为 58kd。
纯度: ≥95%采用 SDS-PAGE 凝胶和高效液相色谱分析。
内毒素: ≤0.01EU/ug (凝胶法)
提纯方法: 层析纯化
组成: 含有 6%甘露醇的无菌 PBS (pH 7.4) 的冻干粉

储存条件

冻干制剂可在 4℃ 保存 24 个月, 溶解后的液体可置于 -20℃ 保存 6-12 个月, 避免反复冻融。

作用机理

Human Fetuin A, also known as alpha 2 -Heremans-Schmid glycoprotein, is encoded by the AHSG gene. It is a major plasma protein and a member of the cystatin superfamily of protease inhibitors. It is expressed by hepatocytes, the principal cell source, and by monocyte/macrophages. The major form of plasma Fetuin A corresponds to a disulfide bond-linked two chains derived from the single chain. It is highly expressed in embryonic cells and adult hepatocytes, and is expressed to a lesser extent in monocytes/macrophages. Human Fetuin A has a number of functions. It is a negative acute-phase protein with normal circulating levels in adults (300-600 μg/mL), which fall significantly (30-50%) during injury and infection. It enhances entry of cationic inhibitors into macrophages (6). It inhibits both insulin receptor autophosphorylation and undesirable calcification. 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. The calculated molecular weight of Recombinant Human Fetuin A is 32.9 kDa. Due to glycosylation, recombinant Fetuin A migrates at an apparent molecular weight of 45 - 55 kDa by SDS-PAGE run under non-reducing conditions.

参考文献

- 1、Jasper Fuk-Woo Chan. et al. (2020) Emerging Microbes & Infections, VOL. 9.