

Biotinylated Recombinant Human MUC-16/CA125 Protein

Catalog No.: RP02599 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 94025 | Q8WXI7 |

Tags

C-His&Avi

Synonyms

CA125; CA-125; CA125MUC-16;
FLJ14303; MUC16

Product Information

| Source | Purification |
|--------------|--------------------------------------|
| HEK293 cells | > 95% as determined by Tris-Bis PAGE |

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

MUC16, also known as the CA125 antigen, is a mucin protein that may be found in type I transmembrane or secreted forms that are used monitor the progress of epithelial ovarian cancer therapy. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Binding to MSLN mediates heterotypic cell adhesion. This may contribute to the metastasis of ovarian cancer to the peritoneum by initiating cell attachment to the mesothelial epithelium via binding to MSLN.

Basic Information

Description

Recombinant Biotinylated Human CA125/MUC16 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly12660-Met12923.

Bio-Activity

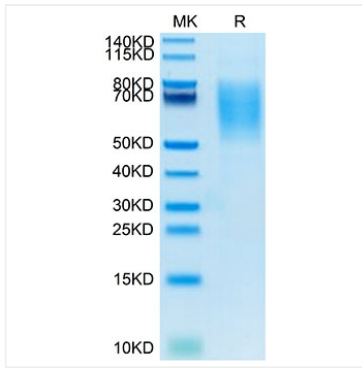
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

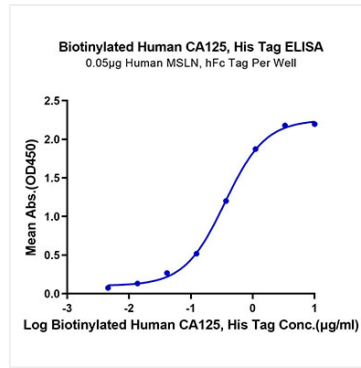
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated Human CA125 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



Immobilized Human MSLN, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human CA125, His Tag with the EC₅₀ of 0.35µg/ml determined by ELISA.