

**Synonym**

CA125,CA-125,CA125MUC-16,FLJ14303,MUC16,mucin 16,mucin-16

**Source**

Biotinylated Human CA125, Fc,Avitag(CA5-H82F4) is expressed from human 293 cells (HEK293). It contains AA Gly 12660 - Met 12923 (Accession # [Q8WXI7-1](#)).

Predicted N-terminus: Gly 12660

**Molecular Characterization**

CA125(Gly 12660 - Met 12923) Q8WXI7-1	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 56.9 kDa. The protein migrates as 75-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

&gt;95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

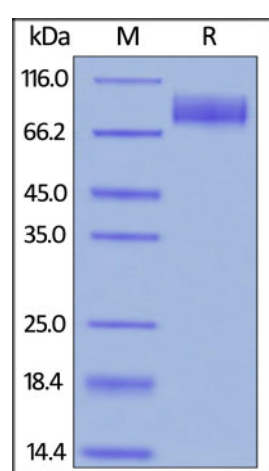
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

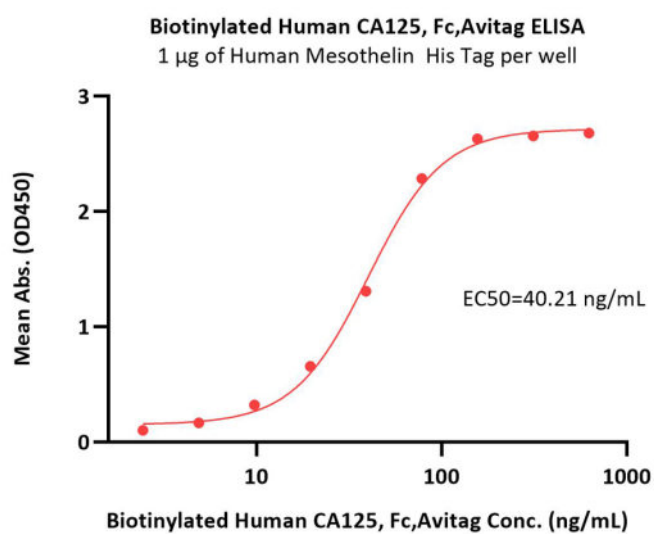
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

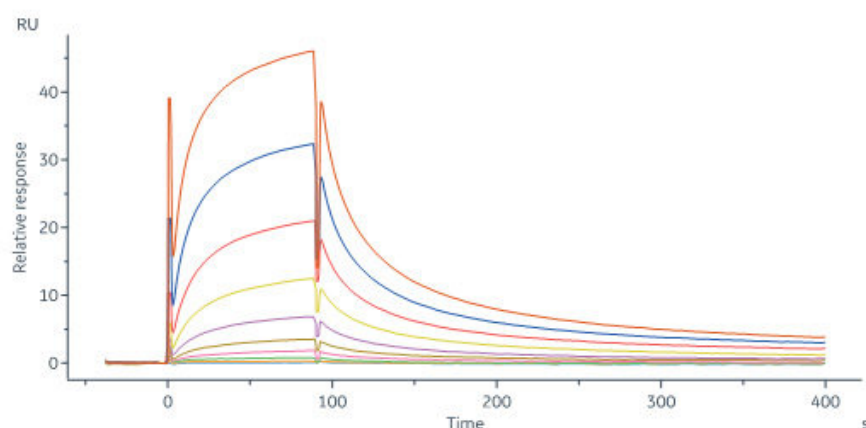
Biotinylated Human CA125, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA****Discounts, Gifts,  
and more!**



Immobilized Human Mesothelin, His Tag at 10 µg/mL (100 µL/well) can bind Biotinylated Human CA125, Fc,Avitag (Cat. No. CA5-H82F4) with a linear range of 2-78 ng/mL (QC tested).

**Bioactivity-SPR**



Human Mesothelin (296-580), His Tag, premium grade (Cat. No. MSN-H522a) immobilized on CM5 Chip can bind Biotinylated Human CA125, Fc,Avitag (Cat. No. CA5-H82F4) with an affinity constant of 0.66 µM as determined in a SPR assay (Biacore 8K) (Routinely tested).

**Background**

The CA125, also known as the MUC16, 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. The CA 125 molecule is almost certainly a glycoprotein with a predominance of O-linkages. It is heterogeneous with regard to both size and charge, most likely due to continuous deglycosylation of side chains during its life-span in bodily fluids. It exists as a very large complex (perhaps as much as 4 million daltons) under natural conditions.

**Clinical and Translational Updates**

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