

# Recombinant Human MUC-16/CA125 Protein

Catalog No.: RP01417 **Recombinant**

## Sequence Information

<b>Species</b>	<b>Gene ID</b>	<b>Swiss Prot</b>
Human	94025	Q8WXI7

### Tags

C-His&amp;Avi

### Synonyms

CA125;MUC16;mucin-16

## Product Information

<b>Source</b>	<b>Purification</b>
HEK293 cells	> 95% by SDS-PAGE.

<b>Calculated MW</b>	<b>Observed MW</b>
2.65 kDa	45-70 kDa

### Endotoxin

< 0.1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial 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.

## Contact

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## 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.

## Basic Information

### Description

Recombinant Human MUC-16/CA125 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly12660-Met12923) of human CA125/MUC16 (Accession #NP\_078966.2) fused with a 6 $\times$ His $\square$ Avi tag at the C-terminus.

### Bio-Activity

Loaded Human Mesothelin/MSLN Protein, C-hFc&His (Catalog: RP01220) on ProA Biosensor, can bind Human CA125 Protein, C-His&Avi (Catalog: RP01417) with an affinity constant of 17.2 nM as determined in BLI assay (Gator).

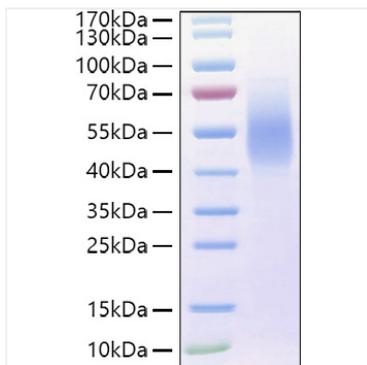
### Storage

Store at -20 $^{\circ}$ C. Store the lyophilized protein at -20 $^{\circ}$ C to -80  $^{\circ}$ C up to 1 year from the date of receipt.

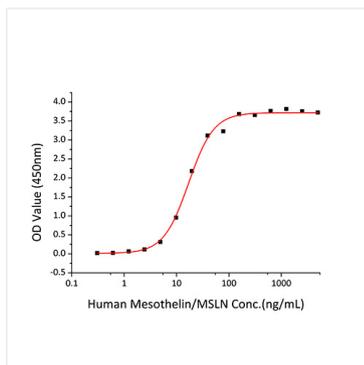
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

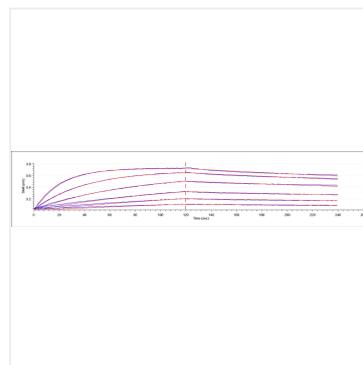
## Validation Data



Recombinant Human MUC-16/CA125 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-70kDa.



Immobilized Human CA125 at 5  $\mu\text{g/mL}$  (100  $\mu\text{L}$ /well) can bind Human Mesothelin/MSLN with a linear range of 0.3-17 ng/mL.



Loaded Human Mesothelin/MSLN Protein, C-hFc&His (Catalog: RP01220) on ProA Biosensor, can bind Human CA125 Protein, C-His&Avi (Catalog: RP01417) with an affinity constant of 17.2 nM as determined in BLI assay (Gator).