

# Recombinant Human MUC-16/CA125 Protein

Catalog No.: RP01830 Recombinant

### **Sequence Information**

**Species Gene ID Swiss Prot** Human 94025 Q8WXI7

**Tags** C-His

**Synonyms** CA125;MUC16;mucin-16

### **Product Information**

**Source** Purification HEK293 cells ≥ 85% as

determined by SDS-

PAGE.

Calculated MW Observed MW

29.21 kDa 35-66 kDa

#### **Endotoxin**

< 0.01 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 stablizer (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×His tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human MUC16(Catalog: RP01830) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human Mesothelin/MSLN (Catalog: RP01220) with a linear range of 0.5-23.7 ng/mL.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

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

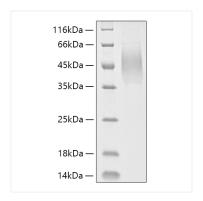
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

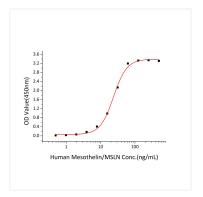
### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## **Validation Data**



Recombinant Human MUC-16/CA125 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human MUC16(Catalog: RP01830) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human Mesothelin/MSLN (Catalog: RP01220) with a linear range of 0.5-23.7 ng/mL.