Recombinant Human MUC-16/CA125 Protein

Catalog No.: RP01417

Sequence Information

Species
Human

Gene ID
94025

Swiss Prot
Q8WXI7

Tags
C-His&Avi

Synonyms
CA125,MUC16,mucin-16

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
2.65 kDa

Observed MW
45-70 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm 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.

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, Avi tag at the C-terminus.

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).

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

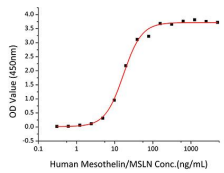
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

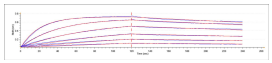
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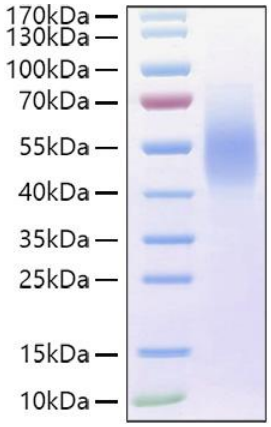
Validation Data



Immobilized Human CA125 at 5 μg/mL (100 μL/well) can bind Human Mesothelin /MSLN with a linear range of 0.3-17 ng/mL.



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