

Biotinylated Human CA125/MUC16 Protein

Cat. No. MUC-HM416B

Description	
Source	Recombinant Biotinylated Human CA125/MUC16 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly12660-Met12923.
Accession	Q8WXI7
Molecular Weight	The protein has a predicted MW of 31.3 kDa. Due to glycosylation, the protein migrates to 52-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

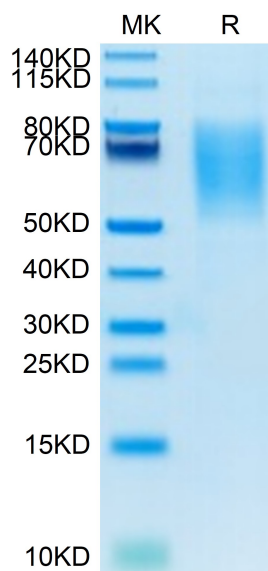
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



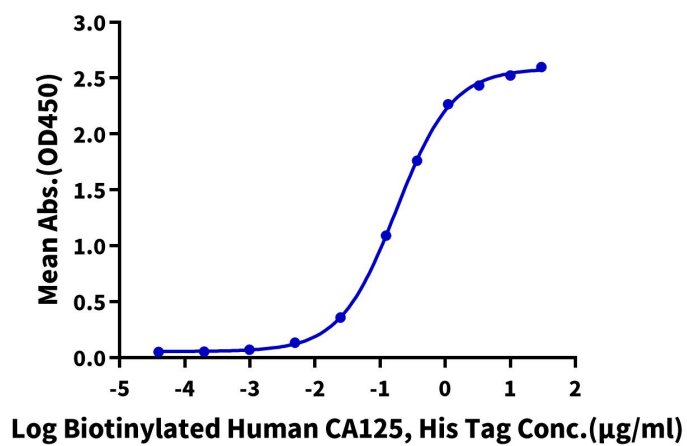
Biotinylated Human CA125 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

ELISA Data

Assay Data

Biotinylated Human CA125, His Tag ELISA

0.2 μg Human MSLN, hFc Tag Per Well



Immobilized Human MSLN, hFc Tag at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the plate. Dose response curve for Biotinylated Human CA125, His Tag with the EC50 of 0.18 $\mu\text{g}/\text{ml}$ determined by ELISA.