

Non-biotinylated Human CA125/MUC16 Protein



Cat. No. MUC-HM416

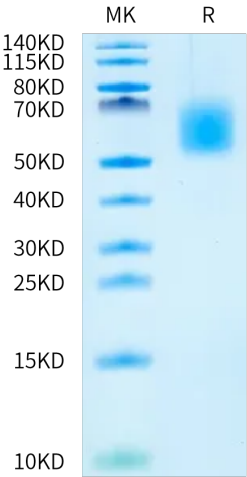
Description	
Source	Recombinant Human CA125/MUC16 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly12660-Met12923.
Accession	Q8WXI7
Molecular Weight	The protein has a predicted MW of 31.3 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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



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

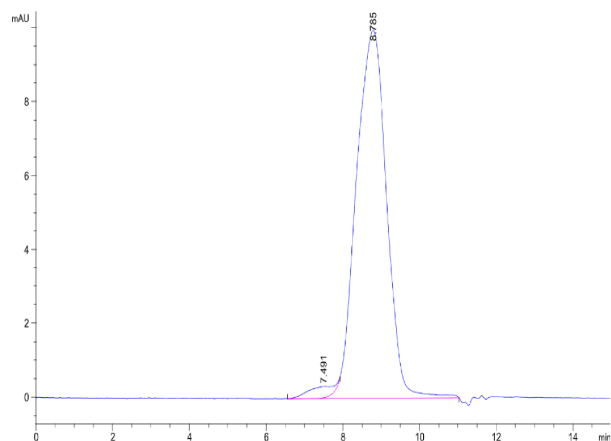
SEC-HPLC

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Assay Data



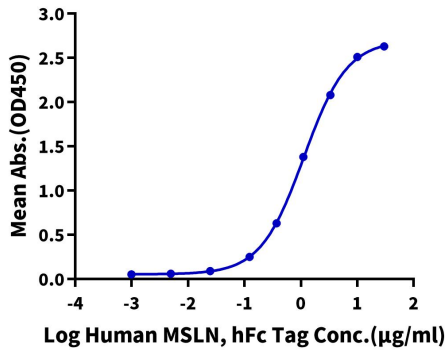
The purity of Human CA125 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

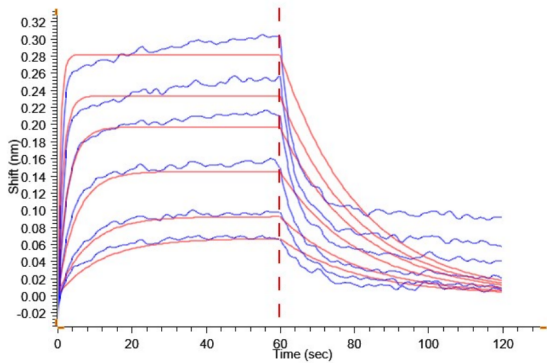
Human CA125, His Tag ELISA

0.5µg Human CA125, His Tag Per Well



Immobilized Human CA125, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human MSLN, hFc Tag with the EC50 of 1.13µg/ml determined by ELISA.

BLI Data



Loaded Human CA125, His-Avi Tag on Anti-His-Biosensor can bind Human MSLN, hFc Tag with an affinity constant of 31.00 nM as determined in BLI assay (Gator® Prime).