

Human CA125/MUC16 Protein

Cat. No. MUC-HM126

Description

Source	Recombinant Human CA125/MUC16 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asp12783-Ser13467.
Accession	Q8WXI7
Molecular Weight	The protein has a predicted MW of 76.17 kDa. Due to glycosylation, the protein migrates to 90-140 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 0.22 µm 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 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.

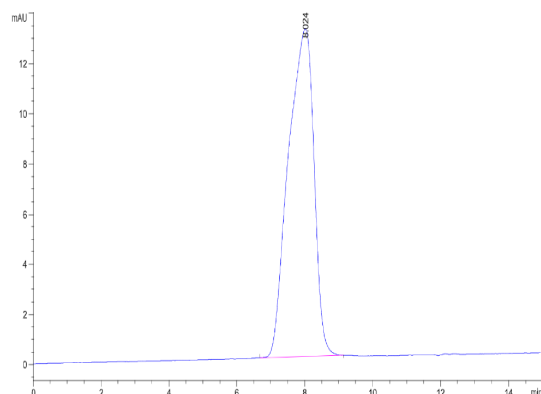
Assay Data

Bis-Tris PAGE



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

SEC-HPLC

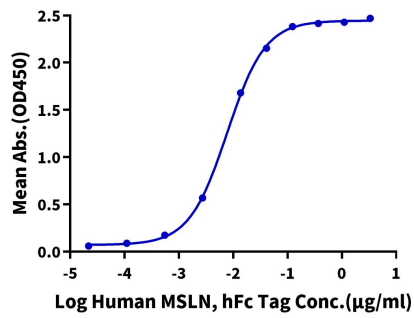


The purity of Human CA125 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human CA125, His Tag ELISA
0.1µg Human CA125, His Tag Per Well



Immobilized Human CA125, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human MSLN, hFc Tag with the EC50 of 7.8 ng/ml determined by ELISA.