

**Synonym**

CA125, CA-125, CA125MUC-16, FLJ14303, MUC16, mucin 16, mucin-16

**Source**

Rhesus macaque CA125 (12664-12920), His Tag(CA5-R52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 12664 - Val 12920 (Accession # [XP\\_015296314.1](#)).

Predicted N-terminus: Gly 12664

**Molecular Characterization**

CA125(Gly 12664 - Val 12920)	Poly-his
XP_015296314.1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 29.9 kDa. The protein migrates as 44-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

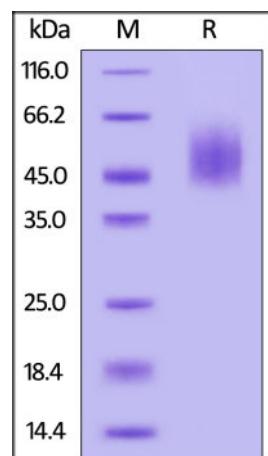
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

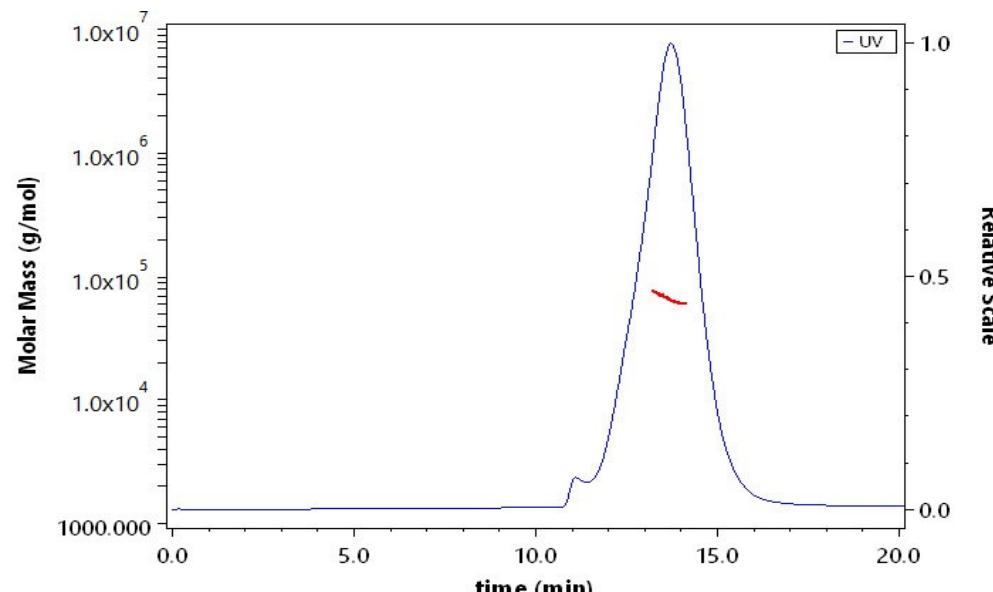
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Rhesus macaque CA125 (12664-12920), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**SEC-MALS**

The purity of Rhesus macaque CA125 (12664-12920), His Tag (Cat. No. CA5-R52H3) is more than 95% and the molecular weight of this protein is around 45-68 kDa verified by SEC-MALS.

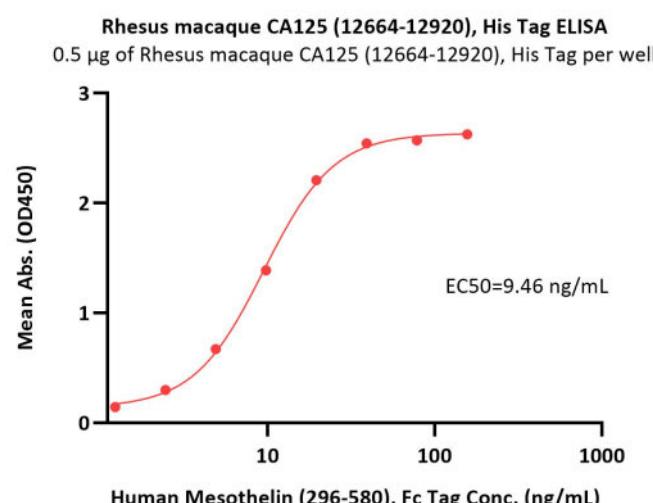
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Immobilized Rhesus macaque CA125 (12664-12920), His Tag (Cat. No. CA5-R52H3) at 5 µg/mL (100 µL/well) can bind Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-H5253) with a linear range of 1-20 ng/mL (QC tested).

## 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.

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