

## Recombinant Human CA125 (C-6His)

Catalog No: CW57

<b>Description</b>	Recombinant Human Mucin-16 is produced by our Mammalian expression system and the target gene encoding Gly12660-Met12923 is expressed with a 6His tag at the C-terminus.
<b>Expression System</b>	Human cells
<b>Alternative name</b>	CA125 ovarian cancer antigen; CA125; CA-125; CA125MUC-16; FLJ14303; MUC16; mucin 16, cell surface associated; mucin-16
<b>Accession No.</b>	Q8WXI7
<b>Predicted Molecular Weight</b>	29.2kDa
<b>Apparent Molecular Weight</b>	40-70kDa, reducing conditions.
<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. Bioactivity: Immobilized Human Mesothelin(Cat#CP52) at 10μg/ml (100 μl/well) can bind Human CA125-His (Cat#CW57). The ED50 of Human CA125-His (Cat#CW57) is 0.6μg/mL.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM Glycine, pH 7.5.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
<b>Background</b>	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. MUC16 is over-expressed by tumor cells including ovarian and mesothelial cancers. The transmembrane form can adhere to mesothelin in the peritoneum, facilitating metastasis of ovarian cancer to the peritoneal cavity. MUC16 also binds galectin-1 on immune cells and enhances its expression on tumor cells. MUC16-expressing tumors adhere to NK cells, down-regulate CD16 and suppress NK response, which may promote immune evasion. MUC16 is also cyclically expressed in the endometrium and may contribute to immune privilege during pregnancy. In the eye, MUC16 and other mucins protect the cornea and keep it hydrated. It is altered on the conjunctival epithelium of patients with non-Sjogren dry eye syndrome.

### SDS-PAGE

