

CA125 Protein, Human (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P72347
Synonyms:	CA125 ovarian cancer antigen; CA-125; FLJ14303; MUC16
Species:	Human
Source:	HEK293
Accession:	Q8WXI7 (G12660-M12923)
Gene ID:	94025
Molecular Weight:	80-120 kDa

PROPERTIES

AA Sequence	<p>G F T H W I P V P T S S T P G T S T V D L G S G T P S S L P S P T T A G P L L V</p> <p>P F T L N F T I T N L K Y E E D M H C P G S R K F N T T E R V L Q S L L G P M F</p> <p>K N T S V G P L Y S G C R L T L L R S E K D G A A T G V D A I C T H R L D P K S</p> <p>P G V D R E Q L Y W E L S Q L T N G I K E L G P Y T L D R N S L Y V N G F T H Q</p> <p>T S A P N T S T P G T S T V D L G T S G T P S S L P S P T S A G P L L V P F T L</p> <p>N F T I T N L Q Y E E D M H H P G S R K F N T T E R V L Q G L L G P M F K N T S</p> <p>V G L L Y S G C R L T L L R P E K N G A A T G M</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCl, 100 mM Glycine, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CA125 protein is believed to serve a crucial role in establishing a protective and lubricating barrier against particles and infectious agents at mucosal surfaces. It exerts its functions through binding to MSLN, where the interaction mediates heterotypic cell adhesion. This adhesive property may play a significant role in the metastasis of ovarian cancer to the peritoneum, as CA125 initiates cell attachment to the mesothelial epithelium by binding to MSLN. The interaction between CA125 and MSLN underscores its potential involvement in the adhesive events associated with cancer metastasis,
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particularly in the context of ovarian cancer progression to the peritoneal cavity.

Caution: Product has not been fully validated for medical applications. For research use only.

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