Uteroglobin/SCGB1A1 Protein, Human

Cat. No.:	HY-P71933
Synonyms:	Blastokinin; CC10; CC16; CCPBP; CCSP; Clara cell phospholipid binding protein; Clara cell phospholipid-binding protein; Clara cell specific 10 kD protein; Clara cells 10 kDa secretory protein; OTTHUMP00000236107; SCGB1A1; Secretoglobin family 1A member 1; Secretoglobin, family 1A, member 1 uteroglobin; ; UG; UGB; UP-1; UP1; Urinary protein 1; Urine protein 1; UTER_HUMAN; Uteroglobin
Species:	Human
Source:	E. coli
Accession:	P11684 (E22-N91)
Gene ID:	7356
Molecular Weight:	Approximately 7.9 kDa

PROPERTIES

AA Sequence	E I C P S F Q R V I E T L L M D T P S S Y E A A M E L F S P D Q D M R E A G A Q L K K L V D T L P Q K P R E S I I K L M E K I A Q S S L C N
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cells. The ED_{50} for this effect is typically 0.2278 μg/mL, corresponding to a specific activity is 4.390×10^3 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm concentrated solution in PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in sterile distilled water. 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	The Uteroglobin/SCGB1A1 protein exhibits versatile binding capabilities, including the ability to bind phosphatidylcholine, phosphatidylinositol, polychlorinated biphenyls (PCB), and weakly binds progesterone. Additionally, it functions as a potent inhibitor of phospholipase A2. Structurally, this protein forms an antiparallel homodimer that is disulfide-linked. While there is some controversy surrounding its interaction with LMBR1L, further investigation is required to clarify this aspect.

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

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