

# Recombinant Human Uteroglobin (rHuUteroglobin)

## PrimeGene Technical Data Sheet

---

<b>Catalog Number:</b>	602-30
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 15.8 kDa, a disulfide-linked homodimeric protein containing two 70 amino acid residues polypeptide.
<b>Quantity:</b>	10µg/50µg/1000µg
<b>AA Sequence:</b>	EICPSFQRVI ETLMDTPSS YEAAAMELFSP DQDMREAGA Q LKKLVDTLPQ KPRESIIKLM EKIAQSSLCN
<b>Purity:</b>	> 98 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cells is less than 5.0 µg/ml, corresponding to a specific activity of > 200 IU/mg.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuUteroglobin as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

---

### **Human Uteroglobin**

Uteroglobin, also known as secretoglobin family 1A member 1 (SCGB1A1), is encoded by the SCGB1A1 gene. It is the founding protein of the secretoglobin family, whose members are small, secreted, disulfide-bridged dimeric proteins found in mammals only. Uteroglobin is specifically expressed in clara cells in the lungs. It is multifunctional and found in various tissues in various names such as: uteroglobin (UG, UGB), uteroglobin-like antigen (UGL), blastokinin, clara cell secretory protein (CCSP), clara cell 16 kD protein (17 in rat/mice), clara Cell-Specific 10 kD protein (CC10), human protein 1, urine protein 1 (UP-1), polychlorinated biphenyl-binding protein (PCB-BP), human clara cell phospholipid-binding protein (hCCPBP), secretoglobin 1A member 1 (SCGB1A1). Its putative functions include immunomodulation, progesterone binding (weak in some animals, especially weak in humans), phospholipase A2 inhibitor etc. Human uteroglobin shares 50 % ~ 60 % amino acid sequence identity with murine, rat, equine and bovine uteroglobins.