

Recombinant Murine Uteroglobin (rMuUteroglobin)

PrimeGene Technical Data Sheet

Catalog Number:	622-30
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 16.7 kDa, a disulfide-linked homodimeric protein containing two 75 amino acid residues polypeptide.
Quantity:	10µg/50µg/1000µg
AA Sequence:	DICPGFLQVL EALLMESESG YVASLKPFNP GSDLQNAGTQ LKRLVDTLPQ ETRINIMKLT EKILTSPLCK QDLRF
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ 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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/µg of rMuUteroglobin as determined by LAL method.
Reconstitution:	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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Murine Uteroglobin

Uteroglobin, also known as secretoglobin family 1A member 1 (SCGB1A1), is encoded by the SCGB1A1 gene. Uteroglobin 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. Murine uteroglobin shares 54% amino acid sequence identity with human uteroglobin.