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**Product Data Sheet**


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Product Name: SCGB1A1 Mouse  
 Cat. No.: GP20878  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Uteroglobin; Clara cell 17 kDa protein; Clara cell phospholipid-binding protein; CCPBP; Clara cells 10 kDa secretory protein; CC10; PCB-binding protein; Secretoglobin family 1A member 1; Scgb1a1; Ugb; Utg; UG; CC16; CCSP; PCB-BP.		
Amino Acid Sequence	DICPGFLQVL EALLMESESG YVASLKPFNP GSDLQNAGTQ LKRLVDTLPQ ETRINIMKLT EKILTSPLCK QDLRF.		
Solubility	It is recommended to reconstitute the lyophilized SCGB1A1 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Uteroglobin protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

**Introduction**

Uteroglobin (SCGB1A1) which belongs to the Secretoglobin (SCGBs) superfamily, is a multifunctional protein that exerts anti-inflammatory and anti-tumorigenic effects by binding small hydrophobic molecules such as phospholipids and prostaglandins. Uteroglobin is involved in numerous functions including anti-inflammation, inhibition of phospholipase A2 and the sequestering of hydrophobic ligands. SCGB1A1 is expressed by Clara cells, the non-ciliated, non-mucous secretory cells predominant in lung bronchioles, and by other epithelia which communicate with the external environment. On top of sequestering pro-inflammatory mediators and carcinogens, Uteroglobin is implicated in the inhibition of cell migration and invasion, platelet aggregation, and T cell differentiation. SCGB1A1 gene defects are associated with a susceptibility to asthma.

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

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### Biological Activity

The ED50 as determined by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cells is less than 5.0µg/ml, corresponding to a specific activity of > 200 IU/mg.

### Stability

Lyophilized Uteroglobin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution SCGB1A1 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Uteroglobin Mouse Recombinant produced in E.coli is a non-glycosylated disulfide-linked homodimeric protein containing 2x75 amino acids chains and having a molecular mass of 16.7kDa. The SCGB1A1 is purified by proprietary chromatographic techniques.

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