

## 32-1708: rSCGB1A1 Recombinant Protein

### Alternative Name :

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.

### Description

Source : Escherichia Coli. SCGB1A1 Rat Recombinant produced in E.Coli is a homodimeric non-glycosylated polypeptide chains consisting of two 77 amino acids and having a molecular mass of 17.0kDa. 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.

### Product Info

<b>Amount :</b>	50 µg
<b>Purification :</b>	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	SCGB1A1 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Lyophilized SCGB1A1 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.
<b>Storage condition :</b>	
<b>Amino Acid :</b>	SSDICPGFLQ VLEALLGSE SNYEAAALKPF NPASDLQNAG TQLKRLVDTL PQETRINIVK LTEKILT SPL CEQDLRV

### Application Note

It is recommended to reconstitute the lyophilized SCGB1A1 in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\Omega$ µg/ml, which can then be further diluted to other aqueous solutions. 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  $\Omega$ µg/ml, corresponding to a specific activity of >200IU/mg.

