9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SCGB1A1 Rat

Uteroglobin Rat Recombinant
CYK0527

Product Overview

Name	SCGB1A1 Rat
Description	
Uteroglobin Rat Recombinant	
Accession (Primary)	P17559
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
SCGB1A1 protein was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
Stability	
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.	
Purity	

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Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

SSDICPGFLQ VLEALLLGSE SNYEAALKPF NPASDLQNAG TQLKRLVDTL PQETRINIVK LTEKILTSPL CEQDLRV

Biological Activity

Fully biologically active when compared to standard. 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 5.0 ?g/ml, corresponding to a specific activity of >200IU/mg.

Solubility

It is recommended to reconstitute the lyophilized SCGB1A1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

SCGB1A1 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P17559)