
Product Data Sheet

Product Name: SCGB1A1 Human
 Cat. No.: GP20876
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Uteroglobin; Clara cell phospholipid-binding protein; CCPBP; Clara cells 10 kDa secretory protein; CC10; Secretoglobin family 1A member 1; Urinary protein 1; UP-1; UP1; Urine protein 1; SCGB1A1; CCSP; UGB; CC16.		
Amino Acid Sequence	EICPSFQRVI ETLMDTPSS YEAAMELFSP DQDMREAGAQ LKKLVDTLPQ KPRESIIKLM EKIAQSSLCN.		
Solubility	It is recommended to reconstitute the lyophilized SCGB1A1 in sterile 18M-cm H2O 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 Uteroglobulin 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

Uteroglobulin Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 15.8kDa. The SCGB1A1 is purified by proprietary chromatographic techniques.

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