

SCGB1A1 Protein, Rat (His)

Cat. No.:	HY-P71925A
Synonyms:	Scgb1a1; Cc10; Ugb; UtgUteroglobin; Clara cell phospholipid-binding protein; CCPBP; Clara cells 10 kDa secretory protein; CC10; PCB-binding protein; Secretoglobin family 1A member 1
Species:	Rat
Source:	E. coli
Accession:	P17559 (S20-V96)
Gene ID:	25575
Molecular Weight:	Approximately 10 kDa

PROPERTIES

AA Sequence	S S D I C P G F L Q V L E A L L L G S E S N Y E A A L K P F N P A S D L Q N A G T Q L K R L V D T L P Q E T R I N I V K L T E K I L T S P L C E Q D L R V
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cells. The ED ₅₀ this effect is 3.142 µg/mL, corresponding to a specific activity is 318.27 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SCGB1A1 protein exhibits versatile binding capabilities, including phosphatidylcholine, phosphatidylinositol, polychlorinated biphenyls (PCB), and progesterone to a lesser extent. It serves as a potent inhibitor of phospholipase A2. Structurally, it forms an antiparallel homodimer that is disulfide-linked. While there is some controversy surrounding its interaction with LMBR1L, further investigation is required to clarify this aspect.
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Caution: Product has not been fully validated for medical applications. For research use only.

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