SCGB1A1 Protein, Mouse (His)

Cat. No.:	HY-P71936A
Synonyms:	Scgb1a1; Cc10; Ugb; Utg; 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
Species:	Mouse
Source:	E. coli
Accession:	Q06318 (D22-96F)
Gene ID:	22287
Molecular Weight:	Approximately 9 kDa

PROPERTIES

AA Sequence	D I C P G F L Q V L E A L L M E S E S G Y V A S L K P F N P G 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 M K L T E K I L T S P L C K Q D L R F
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cells.The ED_{50} for this effect is 1.531 μg/mL, corresponding to a specific activity is 653.17 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The Uteroglobin/SCGB1A1 Protein exhibits versatile binding capabilities, interacting with phosphatidylcholine, phosphatidylinositol, polychlorinated biphenyls (PCB), and displaying weak binding to progesterone. Additionally, it acts as a potent inhibitor of phospholipase A2. Structurally, Uteroglobin forms an antiparallel homodimer, held together by disulfide linkages. However, the reported interaction with LMBR1L remains controversial, emphasizing the need for further investigation into this specific molecular association. The multifaceted binding properties of Uteroglobin underscore its potential role in diverse cellular processes, including lipid metabolism and inflammatory responses.

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

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