

SCGB3A2 Protein, Mouse (His, GST)

Cat. No.:	HY-P71605
Synonyms:	Scgb3a2; Pnsp1; Ugrp1; Secretoglobin family 3A member 2; Pneumo secretory protein 1; PnSP-1; Uteroglobin-related protein 1
Species:	Mouse
Source:	E. coli
Accession:	Q920H1-1 (L22-L139)
Gene ID:	117158
Molecular Weight:	Approximately 42-43.2 kDa

PROPERTIES

AA Sequence	<pre> L L I N R L P V V D K L P V P L D D I I P S F D P L K M L L K T L G I S V E H L V T G L K K C V D E L G P E A S E A V K K L L V I I I C S Y F P G R S L C Y V N N L P S F V S V L F L P M I C A Y P R D S K K Q T F A F I E R V F E Q S K L </pre>
Biological Activity	Measured in a cytotoxicity assay using A549 cells in the presence of 0.5 µg/mL LPS (HY-D1056). The ED ₅₀ of this effect is 0.5589 µg/mL, corresponding to a specific activity is 1.789×10 ³ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6-8% Trehalose, 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.
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	<p>SCGB3A2 is a secreted cytokine-like protein that exhibits diverse functions, including binding to the scavenger receptor MARCO and interacting with various pathogens such as the Gram-positive bacterium <i>L.monocytogenes</i>, the Gram-negative bacterium <i>P.aeruginosa</i>, and yeast. Notably, it strongly inhibits phospholipase A2 (PLA2G1B) activity, showcasing its regulatory role in lipid metabolism. SCGB3A2 demonstrates anti-inflammatory effects in respiratory epithelium and exerts anti-fibrotic activity in the lung. It may contribute to fetal lung development and maturation, promoting branching morphogenesis during early stages of lung development. Additionally, in the pituitary, SCGB3A2 is implicated in inhibiting the production of follicle-stimulating hormone (FSH) and luteinizing hormone (LH). The protein exists as a homodimer,</p>
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linked by disulfide bonds, and can also function as a monomer. Furthermore, SCGB3A2 interacts with APOA1, emphasizing its involvement in diverse physiological processes.

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

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