

Recombinant Rat Scgb1a1 protein

Cat. No. Scgb1a1-1395R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Scgb1a1 protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	77
Description	This gene encodes a member of the secretoglobin family of small secreted proteins. The encoded protein has been implicated in numerous functions including anti-inflammation, inhibition of phospholipase A2 and the sequestering of hydrophobic ligands. Defects in this gene are associated with a susceptibility to asthma.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-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 µg/ml, corresponding to a specific activity of > 200 IU/mg.
Molecular Mass	Approximately 17.0 kDa, a homodimeric protein consisting of two 77 amino acid non-glycosylated polypeptide chains.
AA Sequence	SSDICPGFLQVLEALLLGSESNYEAALKPFNPASDLQNAGTQLKRLVDTLPQETRINI VKLTEKILTSPICEQDLRV

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Endotoxin	Less than 1 EU/μg of rRtUteroglobin as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Scgb1a1
Official Symbol	Scgb1a1
Synonyms	SCGB1A1; secretoglobin, family 1A, member 1 (uteroglobin); uteroglobin; CCPBP; PCB-binding protein; secretoglobin family 1A member 1; clara cells 10 kDa secretory protein; clara cell phospholipid-binding protein; Uteroglobin (Clara cell secretory protein); Ugb; CC10; CCSP; PCBB;
Gene ID	25575
mRNA Refseq	NM_013051
Protein Refseq	NP_037183

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UniProt ID

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