

Recombinant Human SCGB1A1 Protein (Glu22-Asn91), His tagged

Cat. No. SCGB1A1-0891H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CC16 (Glu22-Asn91) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu22-Asn91
Description	Uteroglobin (UG), also known as Secretoglobin 1A member 1 (SCGB1A1), Blastokinin, Clara cell secretor protein (CCSP) or Clara cell-specific 1-kDa protein (CC1), is the founding member of the secretoglobins family of small, secreted, disulfide-bridged dimeric proteins found only in mammals. This protein is mainly expressed in lung, with anti-inflammatory/immunomodulatory properties. Previous in vitro studies demonstrated that CCAAT/enhancer-binding proteins (C/EBPs) are the major transcription factors for the regulation of SCGB1A1 gene expression, whereas FOXA1 had a minimum effect on the transcription. Uteroglobin is a multifunctional protein with antiinflammatory/immunomodulatory properties. Uteroglobin inhibits soluble phospholipase A (2) activity and binds and perhaps sequesters hydrophobic ligands such as progesterone, retinoids, polychlorinated biphenyls, phospholipids, and prostaglandins. In addition to its anti-inflammatory activities, Uteroglobin manifests antichemotactic, antiallergic, antitumorigenic, and embryonic growth-stimulatory activities. The tissue-specific expression of the Uteroglobin gene is regulated by several steroid hormones, although a nonsteroid h

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ormone, prolactin, further augments its expression in the uterus. Based on its anti-inflammatory and antiallergic properties, Uteroglobulin is a potential drug target. The mechanism of Uteroglobulin action is likely to be even more complex as it also functions via a putative receptor-mediated pathway.

Form	Lyophilized powder/frozen liquid
Molecular Mass	9.54 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	SCGB1A1 secretoglobin, family 1A, member 1 (uteroglobulin) [Homo sapiens (human)]
Official Symbol	SCGB1A1
Synonyms	SCGB1A1; secretoglobin, family 1A, member 1 (uteroglobulin); UGB, uteroglobulin;

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uteroglobin; CC10; CC16; CCSP; Uteroglobin (Clara cell specific 10 kD protein);
blastokinin; urine protein 1; urinary protein 1; clara cells 10 kDa secretory protein;
clara cell phospholipid-binding protein; UGB; UP1; UP-1; CCPBP;

Gene ID 7356

mRNA Refseq NM_003357

Protein Refseq NP_003348

MIM 192020

UniProt ID P11684

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