

Recombinant Human Uteroglobin/SCGB1A1 Protein (His Tag)



Catalog Number:PKSH031418

Note: Centrifuge before opening to ensure complete recovery of vial contents.

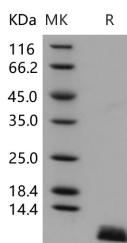
Description

| | |
|------------------------------------|---|
| Synonyms | Uteroglobin;Clara cell phospholipid-binding protein;CCPBP;Clara cells 10 kDa secretory protein;CC10;Secretoglobin family 1A member 1;Urinary protein 1;UP-1;UP1;Urine protein 1;SCGB1A1;CCSP;UGB |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met 1-Asn 91 |
| Accession | P11684 |
| Calculated Molecular Weight | 9.2 kDa |
| Observed molecular weight | 9.2 kDa |
| Tag | C-His |
| Bioactivity | Measured by the ability of the immobilized protein to support the adhesion of the A549 human lung carcinoma cell line. When 5×10^4 cells/well are added to human SCGB1A1 coated plates (2 μ g/ml and 100 μ l/well), approximately > 30% will adhere after one hour at 37 °C. |

Properties

| | |
|-----------------------|---|
| Purity | > 97 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Uteroglobin (UG); also known as Secretoglobin 1A member 1 (SCGB1A1); Blastokinin; Clara cell secretor protein (CCSP) or Clara cell-specific 10-kDa protein (CC10); is the founding member of the secretoglobin family of small;

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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; retinols; polychlorinated biphenyls; phospholipids; and prostaglandins. In addition to its antiinflammatory 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 hormone; prolactin; further augments its expression in the uterus. Based on its anti-inflammatory and antiallergic properties; Uteroglobin is a potential drug target. The mechanism of Uteroglobin action is likely to be even more complex as it also functions via a putative receptor-mediated pathway.

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