

## UGRP1 Protein, Human, Recombinant

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | Uteroglobin-Related Protein 1;Secretoglobin Family 3A Member 2;PNSP1;Pneumo Secretory Protein 1;PnSP-1;UGRP1;SCGB3A2 |
| Protein Construction: | Phe22-Val93  |
| Species:              | Human  |
| Expression Host:      | E. coli  |
| Accession:            | Q96PL1   |
| Molecular Weight:     | 6kDa&7KDa (reducing condition)   |
| AA Sequence:          | Phe22-Val93  |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | Greater than 95% as determined by reducing SDS-PAGE. (QC verified)  |
| Endotoxin:           | < 0.1 ng/μg (1 EU/μg) as determined by LAL test.  |
| Formulation:         | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.  |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Uteroglobin-Related Protein 1 (UGRP1) belongs to the secretoglobin family which has been suggested to play a role in lung inflammation and allergic diseases. UGRP1 is a 17 kDa secreted homodimeric protein that shows amino acid sequence similarity with uteroglobin. UGRP1 is expressed predominantly in the lung and low levels of expression are detected in the thyroid. Expression of UGRP1 in lung epithelial cells is enhanced by IL-10 and decreased through the activities of IL-9 and IL-5. UGRP1 interacts with the macrophage scavenger receptor with

collagenous structure which is expressed by alveolar macrophages in the lung. It have suggested that UGRP1 may be involved in inflammation and pathogen clearance in the lung by binding to its receptor.

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