

## Recombinant Human UGRP1 Protein

Catalog Number: PKSH033201

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

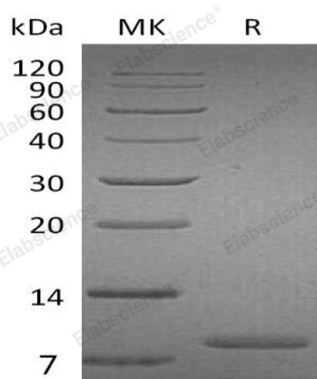
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Human  |
| <b>Source</b>        | E.coli-derived Human UGRP1 protein Phe22-Val93 |
| <b>Calculated MW</b> | 7.9 kDa  |
| <b>Observed MW</b>   | 6&7 kDa  |
| <b>Accession</b>     | Q96PL1   |
| <b>Bio-activity</b>  | Not validated for activity                     |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | 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. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.  |
| <b>Reconstitution</b> | Please refer to the specific buffer information in the printed manual.<br>Please refer to the printed manual for detailed information.  |

### Data



> 95 % as determined by reducing SDS-PAGE.

### 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 has been suggested that UGRP1 may be involved in inflammation and pathogen clearance in the lung by binding to its receptor.

### For Research Use Only

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