

## Recombinant Human LL-37 protein (GST Tag)

**Catalog Number:** PDEH100787

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

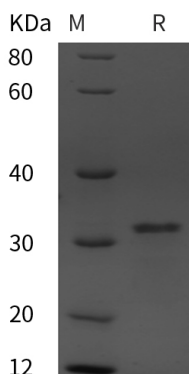
### Description

|                     |  |
|---------------------|--|
| <b>Species</b>      | Human  |
| <b>Source</b>       | E.coli-derived Human LL-37 protein Leu134-Ser170, with an N-terminal GST |
| <b>Mol_Mass</b>     | 29.0 kDa   |
| <b>Accession</b>    | P49913   |
| <b>Bio-activity</b> | Not validated for activity   |

### Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95% as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 10 EU/mg 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 in PBS with 5% Trehalose and 5% Mannitol.  |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.   |

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Antimicrobial protein that is an integral component of the innate immune system. Binds to bacterial lipopolysaccharides (LPS). Acts via neutrophil N-formyl peptide receptors to enhance the release of CXCL2. Postsecretory processing generates multiple cathelicidin antimicrobial peptides with various lengths which act as a topical antimicrobial defense in sweat on skin. The unprocessed precursor form, cathelicidin antimicrobial peptide, inhibits the growth of Gram-negative E.coli and E.aerogenes with efficiencies comparable to that of the mature peptide LL-37 (in vitro).

### For Research Use Only