

Recombinant Human LL-37 protein (GST Tag)

Catalog Number: PDEH100787

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

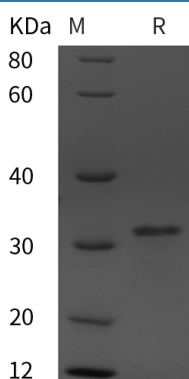
Description

Species	Human
Source	E.coli-derived Human LL-37 protein Leu134-Ser170, with an N-terminal GST
Calculated MW	29.0 kDa
Observed MW	32 kDa
Accession	P49913
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg 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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	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).

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