

RP02867

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# Recombinant Human beta Defensin 3/DEFB103A Protein

Catalog No.: RP02867

Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 55894   | P81534     |

### Tags

N-His

### Synonyms

Beta-defensin 3; BD-3; DEFB-3; HBD3; hBD-3; DEFB103A

## Background

Beta-defensin 3 is a member of the defensin family. Defensin family is comprised by microbicidal and cytotoxic peptides made by neutrophils. Members of the beta-defensin 3 family are highly similar in protein sequence. Beta-defensin 3 shows antimicrobial activity against Gram-positive bacteria *S.aureus* and *S.pyogenes*, Gram-negative bacteria *P.aeruginosa* and *E.coli* and the yeast *C.albicans*. Beta-defensin 3 is abundantly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue. It is also expressed in salivary gland, bone marrow, colon, stomach, polyp and larynx. However, in small intestine, it cannot be detected. Defensin has broad spectrum antimicrobial activity and may play an important role in innate epithelial defense. Beta-defensin 3 kills multiresistant *S.aureus* and vancomycin-resistant *E.faecium*. It has no significant hemolytic activity.

## Product Information

### Source

<I>E. coli</I>

### Purification

>95% as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Formulation

Lyophilized from a 0.22 µm filtered solution of 50mM Tris, 0.3% Triton X-100, 0.3% SKL, pH 8.5.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Basic Information

### Description

Recombinant Human beta Defensin 3/DEFB103A Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Gly23-Lys67) of human beta Defensin 3/DEFB103A (Accession #NP\_061131.1) fused with a 6×His tag at the N-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C to -80°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

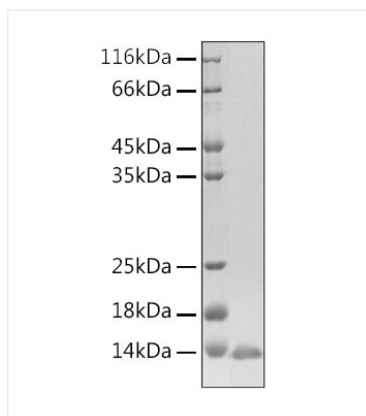
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Human beta Defensin  
3/DEFB103A Protein was determined by  
SDS-PAGE with Coomassie Blue, showing a  
band at 13 kDa.