

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	Purification
<i>E. coli</i>	>95% as determined by SDS-PAGE

Calculated MW	Observed MW
7.3 kDa	12 kDa

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 *E. coli* 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 at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

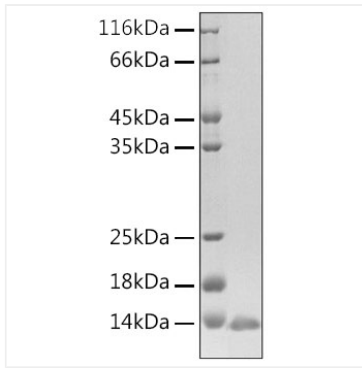
Contact

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Validation Data



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