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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

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
7.3 kDa

Observed MW
12 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of 50mM Tris, 0.3% Ttiton 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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-resistent E.faecium. It has no significant hemolytic activity.

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

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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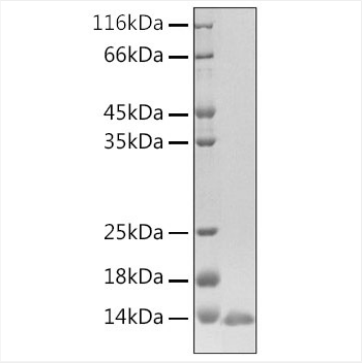
Validation Data



Recombinant Human beta Defensin 3/DEFB103A Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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