

# Recombinant Human Defensin/Beta-defensin 3/DEFB103 Protein (His Tag)



Catalog Number:PKSH031389

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

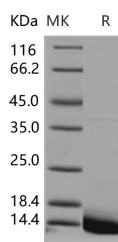
## Description

<b>Synonyms</b>	BD-3;DEFB-3;DEFB103;DEFB3;hBD-3;HBD3;HBP-3;HBP3
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Gly 23-Lys 67
<b>Accession</b>	P81534
<b>Calculated Molecular Weight</b>	7.3 kDa
<b>Observed molecular weight</b>	12 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 99 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<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 sterile 50mM Tris, 0.3% Triton X-100, 0.3% SKL, pH 8.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 99 % as determined by reducing SDS-PAGE.

## 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.

## For Research Use Only

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