

**Recombinant Human Defensin / Beta-defensin 3 / DEFB103 Protein (His tag)**

**Cat.NO.: TP07731**

3th Edition

**Synonyms:**BD-3;DEFB-3;DEFB103;DEFB3;hBD-3;HBD3;HBP-3;HBP3

**Description:**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.

**Form:**PBS

**Molecular Weight:**7.3 kDa

**Sequences:**Gly 23-Lys 67

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.