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## 32-12012: Human Beta Defensin-3

 Gene :
 DEFB103A

 Gene ID :
 414325

 Uniprot ID :
 P81534

Alternative Name: DEFB-3, Beta-defensin 3, Â Defensin, beta 103, Defensin-like protein

## **Description**

**Source:** Genetically modified E.coli. **Predicted MW:** Monomer, 5.2 kDa (45 aa)

Beta-Defensin 3 (BD-3), also known as DEFB-3, is a member of the defensin class of antimicrobial peptides. Beta defensins exert host defense responses against viruses, bacteria, and fungi through the binding and permeabilizing of microbial membranes. BD-3 expression is stimulated by interferon-gamma and is an important molecule during adaptive immunity. BD-3 functions to activate monocytes and mast cells, and has antibacterial functions towards Gram-negative and Grampositive bacteria. Further, BD-3 blocks human immunodeficiency virus type 1 (HIV-1) replication through the downregulation of the HIV-1 co-receptor, CXCR4.

## **Product Info**

Amount:  $20 \mu g / 100 \mu g$ 

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic

**Content:** Acid (TFA)

Sterile water at 0.1 mg/mL

**Storage condition :** Store at -20°C

Amino Acid: GIINTLQKYY CRVRGGRCAV LSCLPKEEQI GKCSTRGRKC CRRKK

## **Application Note**

**Endotoxin:** Less than 0.1  $ng/\mu g$  (1  $IEU/\mu g$ ) as determined by LAL test.

Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.

