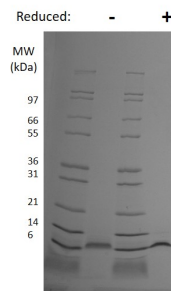


## DEFB103A

### Recombinant Human Beta-Defensin 3

<b>Catalog No.</b>	CRB502A CRB502B CRB502C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	Beta-defensin 103, BD-3, DEFB-3, hBD-3, HBD3, HBP-3, Defensin, beta 103		
<b>Gene ID:</b>	55894		
<b>UniProt ID:</b>	P81534		
<b>Description:</b>	Defensins (alpha and beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The alpha-defensins are distinguished from the beta-defensins by the pairing of their three disulfide bonds. To date, four human beta-defensins have been identified; BD-1, BD-2, BD-3 and BD-4. Beta-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they are chemoattractant towards immature dendritic cells and memory T cells. The beta-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence and, in the case of BD-1 (36 a.a.), a propeptide region. Beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Beta-Defensins are 3-5 kDa peptides ranging in size from 33-47 amino acid residues.		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	5.2 kDa (45 aa) monomer		
<b>Formulation:</b>	Lyophilized from a sterile-filtered solution containing 0.1% Trifluoroacetic acid (TFA).		
<b>Purity:</b>	≥ 95% by Reducing and Non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1 EU/µg as determined by kinetic LAL method.		
<b>Amino Acid Sequence:</b>	GIINTLQKYY CRVRGGRCV LSCLPKKEEQI GKCSTRGRKC CRRKK		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile 10 mM acetic acid to a concentration of 0.1 mg/ml and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for reconstitution.		
<b>Storage &amp; Stability:</b>	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. <b>Avoid repeated freeze-thaw cycles.</b>		





**Human Beta-Defensin Gel**

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human BD-3 is predicted to have a MW of 5.2 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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