

## **Bioworld Technology, Inc.**

## Recombinant Murine Beta –Defensins 2 (rMuBD-2)

Catalog Number: PR2012	Source:Escherichia	coli.	Quantity:5µg/20µg/1.0mg
<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 $\beta$ -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.		Formulation:Lyophilized from a 0.2mm filtered concentrated solution isPBS, pH 7.4.AA Sequence:A V G S L K S I G Y E A E L D H C H T N G G Y C V R AI C P P S A R R P G S C F P E K N P C C K Y M KEndotoxin:Less than 1EU/mg of rMuBD-2 as determined by LAmethod.Reconstitution:We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute is sterile distilled water or aqueous buffer containing 0.1% BSAto a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C	
Approximately 5.54 kDa, a single nor tide chain containing 51 amino acids.		<b>Storage:</b> This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.	
Purity:			
>98% by SDS-PAGE and HPLC anal Biological Activity: Determined Sterile Filtered White lyon neuroder by its ability to abamaettraat	ophilized (freeze-dried)		
owder.by its ability to chemoattract immature human den- ritic cells using a concentration of 10.0-100.0 ng/ml. <b>Physical Appearance:</b>		Usage: This material is offered by USA Bioworld biotech for re	
- in stour reproduction		search, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China	

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