

## Datasheet for ABIN2017678 **beta Defensin 1 Protein**



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### Overview

Quantity:	20 µg
Target:	beta Defensin 1 (DEFB1)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Sequence:	DQYRCLQNGG FCLRSSCP SH TKLQGTCKPD KPNCCRS
Characteristics:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using CD34+ dendritic cells is in a concentration range of 100.0-1000.0 ng/mL.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Sterility:	0.2 µm filtered
Endotoxin Level:	< 1 EU/µg of rRtBD-1 as determined by LAL method.

### Target Details

Target:	beta Defensin 1 (DEFB1)
Alternative Name:	beta-Defensin 1(BD-1) ( <a href="#">DEFB1 Products</a> )
Background:	Defensin are 3-4 kDa antimicrobial peptides of which three distinct families have been identified, alpha-defensin, beta-defensins, and insect defensins. Rat beta-Defensin 1, as a

## Target Details

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member of the beta-defensin family, is a salt-sensitive antimicrobial peptide present in epithelia of the lung and urogenital tract. The predicted amino acid sequence shows the hallmark features of other known epithelial beta-defensins, including the ordered array of six cysteine residues.

Synonyms: Beta-defensin 1, BD-1, rBD-1, Defensin beta 1, Defb1.

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Molecular Weight: 4.1 kDa, a single non-glycosylated polypeptide chain containing 37 amino acids.

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at  $\leq -20$  °C. Further dilutions should be made in appropriate buffered solutions.

Buffer: Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in 20 mM PB, 500 mM NaCl, pH 7.0.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: 4 °C/-20 °C

Storage Comment: 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.