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## Datasheet for ABIN1096113 beta Defensin 1 Protein (AA 22-68)

### Overview

Quantity:	50 µg
Target:	beta Defensin 1 (DEFB1)
Protein Characteristics:	AA 22-68
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human $\beta$ -Defensin 1/DEFB1
Sequence:	GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCKK
Characteristics:	Recombinant Human beta-Defensin 1/DEFB1 is produced with our E. coli expression system. The target protein is expressed with sequence (Gly22-Lys68) of Human DEFB1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	beta Defensin 1 (DEFB1)
Alternative Name:	beta-defensin-1 ( <a href="#">DEFB1 Products</a> )
Background:	Beta-Defensin 1 (DEFB1) is a member of the beta-defensin family, which is highly expressed by

## Target Details

epithelial cells. beta-defensins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal peptide. beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. beta-defensin 1 is an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. Defects in beta-Defensin-1 contribute to asthma diagnosis, with apparent gender-specific effects in human. beta-defensin 1 may also play a role in the pathogenesis of severe sepsis. In addition, beta-defensin 1 is associated with induction profiles in gingival keratinocytes.

Alternative Names: Beta-Defensin 1, BD-1, hBD-1, Defensin Beta 1, DEFB1, BD1, HBD1

Molecular Weight: 5.07 kDa

UniProt: [P60022](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 130 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months