



# Human BD-3

## Research grade

5 µg  
20 µg

130-093-810  
130-094-615

### Description:

Human  $\beta$ -defensin 3 (BD-3) belongs to the group of cationic peptides with a broad spectrum of antimicrobial activity. The  $\alpha$ -defensin is distinguished from the  $\beta$ -defensin by pairing of their three disulfide bonds. The expression of  $\beta$ -defensin is found on leukocytes as well as on epithelial surfaces. BD-3 has the ability to chemoattract immature dendritic cells and memory T cells and to activate mast cells. BD-3 expression is induced upon microbial and viral infections and in response to proinflammatory cytokines. Human BD-3 is a single, non-glycosylated 5.2 kDa protein containing 45 amino acid residues.

|                         |                               |
|-------------------------|-------------------------------|
| <b>Source:</b>          | <i>E. coli</i>                |
| <b>Molecular mass:</b>  | 5.2 kDa                       |
| <b>Purity:</b>          | >95% (SDS-PAGE, HPLC)         |
| <b>Endotoxin level:</b> | <0.1 ng/µg (1 EU/µg)          |
| <b>Buffer:</b>          | None                          |
| <b>Stabilizer:</b>      | None                          |
| <b>Product format:</b>  | Sterile filtered, lyophilized |

### Reconstitution:

We recommend a quick spin followed by reconstitution in deionized sterile-filtered water to a concentration of 0.1–1.0 mg/mL. This solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week or –20 °C for future use. Addition of carrier protein, such as 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) may have stabilizing effects.

### Storage:

The lyophilized protein is stable for a few weeks at room temperature, but best stored at –20 °C. Reconstituted Human BD-3 should be stored in working aliquots at –20 °C. Avoid repeated freeze-thaw cycles.

All protocols and data sheets are available at [www.miltenyibiotec.com](http://www.miltenyibiotec.com).

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