

**BD-4, human recombinant protein**

DEFB104A; DEFB4; BD-4; DEFB-4; DEFB104; MGC118942; MGC118944; MGC118945;

hBD-4

Catalog # PBV10296r

**Specification**

---

**BD-4, human recombinant protein - Product info**Primary Accession [O8WTO1](#)  
Calculated MW ~6.0 kDa KDa**BD-4, human recombinant protein - Additional Info**

Gene ID	140596
Gene Symbol	DEFB4
<b>Other Names</b>	
Beta-defensin 3, Defensin, beta 103, Defensin-like protein, DEFB103A, BD3, DEFB103, DEFB3, DEFB103B	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	HPLC; ≥98%
Recombinant	Yes
<b>Target/Specificity</b>	
BD-4	

**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile dd H<sub>2</sub>O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers and stored at 4 °C for 2-7 days and at -20 °C for future use.

**Format**

Lyophilized protein

**Storage**

-20°C; Sterile filtered and lyophilized from 20 mM PBS, pH 7.4 and 130 mM NaCl.

**BD-4, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

#### **BD-4, human recombinant protein - Images**

#### **BD-4, human recombinant protein - Background**

Defensins are cationic peptides with a large spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The Alpha defensins are differentiated from the Beta-defensins by the pairing of their 3 disulfide bonds. Four human Beta-defensins have been identified to date; 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. Beta-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence (for BD-1 a propeptide region). Beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Beta Defensin-4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 50 amino acids. The BD-4 is purified by proprietary chromatographic techniques.

#### **BD-4, human recombinant protein - References**

Conejo-Garcia J.-R., et al. FASEB J. 15:1819-1821(2001).