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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	Q8WTQ1
Calculated MW	~6.0 kDa KDa

BD-4, human recombinant protein - Additional Info

Gene ID	140596
Gene Symbol	DEFB4

Other Names
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

Target/Specificity
BD-4

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile dd H_2O 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 Cytomety

- 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).