



Human BD-2

Research grade

20 µg

130-093-809

Description:

Human β -Defensin 2 (BD-2) belongs to the group of cationic peptides with a broad spectrum of antimicrobial activity. The α -Defensin is distinguished from the β -Defensin by pairing of their three disulfide bonds. The expression of β -Defensin is found on leukocytes as well as on epithelial surfaces. BD-2 has the ability to chemoattract towards immature dendritic cells and memory T cells. The proteins of β -Defensin are expressed as the C-terminal portion of precursors and released by proteolytic cleavage of a signal sequence. Human BD-2 is a 4.3 kDa protein containing 41 amino acid residues.

Source:	<i>E. coli</i>
Molecular mass:	4.3 kDa
Purity:	>95% (SDS-PAGE, HPLC)
Endotoxin level:	<0.1 ng/µg (1 EU/µg)
Buffer:	None
Stabilizer:	None
Product format:	Sterile filtered, lyophilized

Biological activity:

Determined by its ability to chemoattract immature dendritic cells using a concentration of 10–100 ng/mL.

Reconstitution:

It is recommended to reconstitute lyophilized Human BD-2 with 10 mM acetic acid 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 one week or at –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-2 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.

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