

## PRODUCT INFORMATION SUMMARY

### Human BD-1

Purified Factor (36 aa.)	Product Number	HC66601	20 ug
		HC66601A	5.0 ug
Purified Factor (47 aa.)	Product Number	HC511017	20 ug
		HC511017A	5.0 ug

#### DESCRIPTION:

Human Beta Defensins (BD-1) are proteins that exert anti-microbial activity in the innate immune system. These peptides are expressed on epithelial surfaces and some leukocytes. Beta Defensins incorporate three (3) intra-molecular disulfide bonds in a six cysteine motif. BD-1 is a C-terminal precursor released by proteolytic cleavage of a signal sequence. Two forms are expressed; a 36 aa. protein with 3.9 kDa molecular weight and a 47 aa. form (HC66601-L) with M.W. of 5.0 kDa.

**SOURCE:** E. Coli  
Purity > 95% by HPLC analysis  
Endotoxin < 0.1 ng per ug BD-1  
Sterile-filtered and lyophilized from PBS

#### BIOLOGICAL ACTIVITY:

This human BD-1 was observed to chemoattract CD34+ dendritic cells in range 100 - 1000 ng/mL in QC testing.

#### HANDLING AND STORAGE:

Purified Human BD-1 factor is provided lyophilized. Store lyophilized, at -20° C. Microcentrifuge before reconstitution (see below). Upon reconstitution in 50 uL of sterile or distilled water, further dilute in PBS or other buffered solutions. Store small aliquots at -20 ° C for long-term storage, at high concentration.

**Before opening vial,** it is recommended to microcentrifuge vial for 30 seconds to spin-down any lyophilized material that may adhere to top of vial. The small amounts of protein may adhere to the vial as a very thin coat of lyophilized material, and may be difficult to see as a pellet.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**