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# 32-1063: rBD 1 Recombinant Protein

**Alternative Name :** Beta-defensin 1,BD-1,rBD-1,Defensin beta 1,Defb1.

## Description

Source : Escherichia Coli. BD-1 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 37 amino acids and having a molecular mass of 4.1kDa.The BD-1 is purified by proprietary chromatographic techniques. The Defensin family are highly similar in their protein sequence and are microbicidal & cytotoxic peptides made by neutrophils. Beta Defensin-1 is an antimicrobial peptide having the resistance of epithelial surfaces to microbial colonization. Beta Defensin-1 has close proximity to Defensin Alpha-1 and has been implicated in the pathogenesis of cystic fibrosis.Skin of patients having atopic dermatitis patients and mycosis fungoides (non-lesional and lesional) show lower human Beta Defensin-1 mRNA expression and higher human Beta Defensin-2 and human Beta Defensin-3 mRNA expression. Beta Defensin is highly expressed by epithelial cells. Beta-defensin 1 may play a role in the pathogenesis of severe sepsis.

## Product Info

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| **Amount :** | 20 µg |
| **Purification :** | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | BD-1 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. |
| **Storage condition :** | Lyophilized BD-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| **Amino Acid :** | DQYRCLQNGG FCLRSSCPSH TKLQGTCKPD KPNCCRS. |

## Application Note

It is recommended to reconstitute the lyophilized BD-1 in sterile 18M-cm H2O not less than 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions. Measured by its ability to chemoattract CD34+ dendritic cells using a concentration range of 0.1-1.0 ug/ml.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***