

BD 1 Rat

Description: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.

Catalog #:CYP5-069

For research use only.

Synonyms:Beta-defensin 1, BD-1, rBD-1, Defensin beta 1, Defb1.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:DQYRCLQNGG FCLRSSCP SH TKLQGTCKPD KPNCCRS.

Purity:Greater than 95.0% as determined by:(a) Analysis by HPLC.(b) Analysis by SDS-PAGE.

Formulation:

BD-1 protein was lyophilized from a 0.2

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized BD-1 in sterile 18M-cm H₂O not less than 100

Introduction:

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.

Biological Activity:

Measured by its ability to chemoattract CD34+ dendritic cells using a concentration range of 0.1-1.0 µg/ml.

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