9051 Mira Mesa Blvd, #910094
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BD 1 Rat

Beta Defensin -1 Rat Recombinant
CYK0069

Product Overview

Name	BD 1 Rat
Description	
Beta Defensin -1 Rat Recombinant	
Accession (Primary)	O89117
Synonyms	
Beta-defensin 1, BD-1, rBD-1, Defensin beta 1, Defb1.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
BD-1 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
DQYRCLQNGG FCLRSSCPSH TKLQGTCKPD KPNCCRS.	

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Biological Activity

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

Solubility

It is recommended to reconstitute the lyophilized BD-1 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

BD 1 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O89117)