9051 Mira Mesa Blvd, #910094
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BD 3 Rat

Beta Defensin-3 Rat Recombinant
CYK0074

Product Overview

Name	BD 3 Rat
Description	
Beta Defensin-3 Rat Recombinant	
Accession (Primary)	Q32ZI4
Synonyms	
Beta-defensin 3, BD-3, Defensin beta 3, Defb3.	
Introduction	
Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 103A, which has broad spectrum antimicrobial activity and may play an important role in innate epithelial defense.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
BD-3 protein was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
Stability	
Lyophilized BD-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-3 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 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
KKVYNAVSCM TNGGICWLKC SGTFREIGSC GTRQLKCCKK K.	
Biological Activity	
Measured by its antimicrobial activity against E. coli. The ED 50 for this effect is typically 4-20 μg/ml, corresponding to a specific activity of 50,000-250,000units/mg.	
Solubility	

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It is recommended to reconstitute the lyophilized BD-3 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 3 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q32ZI4)