9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

BD14 Mouse

Beta Defensin-14 Mouse Recombinant
CYK0077

Product Overview

Name	BD14 Mouse
Description	
Beta Defensin-14 Mouse Recombinant	
Accession (Primary)	Q7TNV9
Synonyms	
Beta-defensin 14, BD-14, mBD-14, Defensin, beta 14, Defb14.	
Introduction	
Alpha and Beta Defensins are cationic peptides with antimicrobial activity against Gram-negative and Gram-positive bacteria, fungi and enveloped viruses. These 2-6kDa proteins have vital roles in innate immune system. Mammalian Defensins are classified into alpha, beta and theta categories, based on their size and pattern of disulfide bonding. Beta-Defensins contain a six-cysteine motif which forms 3 intra-molecular disulfide bonds. Since beta-defensins are cationic peptides, they can therefore interact with the membrane of invading microbes, which are negative due to lipopolysaccharides (LPS) and lipoteichoic acid (LTA) found in the cell membrane. In addition, they can affect the stability of the membrane.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
BD-14 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.	
Stability	
Lyophilized Mouse BD14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-14 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 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
FLPKTLRKFF CRIRGGRCAV LNCLGKEEQI GRCSNSGRKC CRKKK.	

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Solubility

It is recommended to reconstitute the lyophilized BD14 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

BD14 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q7TNV9)