
Product Data Sheet

Product Name: BD14 Mouse
 Cat. No.: GP20084
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta-defensin 14; BD-14; mBD-14; Defensin; beta 14; Defb14.		
Amino Acid Sequence	FLPKTLRKFF CRIRGGRCV LNCLGKEEQI GRCSNSGRKC CRKKK.		
Solubility	It is recommended to reconstitute the lyophilized BD14 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	BD-14 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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cycles.

Background

Beta Defensin-14 Mouse Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 45 amino acids and having a molecular mass of 5.2kDa. The BD14 is purified by proprietary chromatographic techniques.

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