
Product Data Sheet

Product Name: BD 3 Rat
Cat. No.: GP20080
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta-defensin 3; BD-3; Defensin beta 3; Defb3.		
Amino Acid Sequence	KKVYNAVSCM TNGGICWLKC SGTFREIGSC GTRQLKCKK K.		
Solubility	It is recommended to reconstitute the lyophilized BD-3 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	BD-3 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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.

Biological Activity

Measured by its antimicrobial activity against E. coli. The ED₅₀ for this effect is typically 4-20µg/ml, corresponding to a specific activity of 50,000-250,000units/mg.

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.

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

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Background

BD-3 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 41 amino acids and having a molecular mass of 4.5kDa. The BD-3 is purified by proprietary chromatographic techniques.

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