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## Product Data Sheet

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Product Name: BD 3 Mouse  
 Cat. No.: GP20079  
 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; mBD-3; Defensin beta 3; Defb3; Bd3; MGC129397.

Amino Acid Sequence KKINNPVSCL RKGGRWNRC IGNTRQIGSC GVPFLKCKR K.

Solubility It is recommended to reconstitute the lyophilized Beta Defensin-3 in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Formulation The Mouse BD-3 was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.

### 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 ED<sub>50</sub> for this effect is typically 4-20µg/ml, corresponding to a specific activity of 50,000-250,000units/mg.

### Stability

Lyophilized Beta Defensin-3 Recombinant 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 .Please prevent freeze-thaw cycles.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

Beta Defensin-3 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 41 amino acids and having a molecular mass of 4.6kDa. The BD-3 is purified by proprietary chromatographic techniques.

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