

## BD 3 Rat

**Description:**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.

**Catalog #:**CYPS-070

For research use only.

**Synonyms:**Beta-defensin 3, BD-3, Defensin beta 3, Defb3.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**KKVYNAVSCM TNGGICWLKC SGTFREIGSC GTRQLKCCKK K.

**Purity:**Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

BD-3 protein was lyophilized from a 0.2

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized BD-3 in sterile 18M-cm H<sub>2</sub>O not less than 100

**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 4-20

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