



## **Beta Defensin-3 Rat Recombinant**

Item Number rAP-0351

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

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.

Q32ZI4 **Uniprot Accesion Number** 

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

Escherichia Coli. Source

**Physical Appearance** and Stability

Sterile Filtered White lyophilized (freeze-dried) powder. 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.

Formulation and Purity BD-3 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than

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

**Application** 

Solubility It is recommended to reconstitute the lyophilized BD-3 in sterile 18M-cm H2O not less than 100µg/ml,

which can then be further diluted to other aqueous solutions.

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

**Shipping Format and Condition** Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only