



## Rat BD-3

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

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order#	Lot#	Expiry Date
5 µg	1183.970.005		
20 µg	1183.970.020		
1 mg	1183.970.199		

Please enquire for bulk quantities and other vial sizes.

### 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 4.5 kDa.

- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE, RP-HPLC)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** BD-3 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4\*
- **Physical State** Sterile filtered, lyophilized

### 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.

### Reconstitution

It is recommended to reconstitute the lyophilized BD-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.

### 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, order number: 2835.955.xyz or 2835.958.xyz, or BSA, order number: 2835.919.xyz). **Please avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

KKVYNAVSCM TNGGICWLKC SGTFREIGSC GTRQLKCKK K

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.