

## BD 3 Human

**Description:** Beta Defensin-3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 45 amino acids and having a molecular mass of 5161.2 Dalton. The BD-3 is purified by proprietary chromatographic techniques.

Catalog #:CYP5-468

**Synonyms:** HBD3, HBP3, DEFB3, HBD-3, HBP-3, DEFB103.

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** GIINTLQKY Y CRVRGGRC AV LSCLPK EEQI GKCSTRGRKC CRRKK.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The HBD-3 was lyophilized without additives.

**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.

**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 Beta Defensin-3 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**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.

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