



Beta Defensin-3, human recombinant (rHuBD-3)

Catalog No: 94991
Lot No: XXXXX
Source: *E. coli*
Synonyms: HBD3, HBP3, DEFB3, HBD-3, HBP-3, DEFB103

Background

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.

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. BD-3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

HBD-3 was lyophilized without additives.

Solubility

It is recommended to reconstitute the lyophilized Beta Defensin-3 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

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

Purity

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

Amino Acid Sequence

GIINTLQKYY CRVRGGRCV LSLCPKEEQI GKCSTRGRKC CRRKK

Usage

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