



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

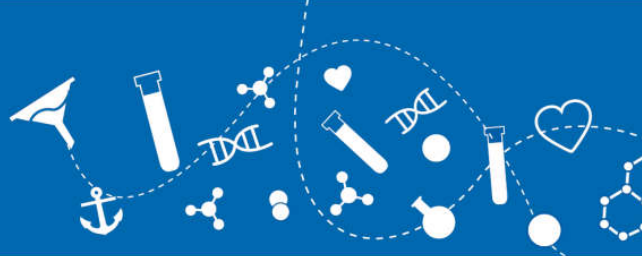
T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Beta Defensin-2, human recombinant (rHuBD-2)

Catalog No: 97017
Lot No: XXXXX
Source: *E. coli*
Synonyms: BD-2, hBD-2, Defensin beta 2, Skin-antimicrobial peptide 1, SAP1, DEFB4, DEFB102, DEFB2, DEFB4P, Beta-defensin 2

Background

The Defensin family are highly similar in their protein sequence and are microbicidal & cytotoxic peptides made by neutrophils. Beta Defensin-1 is an antimicrobial peptide having the resistance of epithelial surfaces to microbial colonization. Beta Defensin-1 has close proximity to Defensin Alpha-1 and has been implicated in the pathogenesis of cystic fibrosis. Skin of patients having atopic dermatitis patients and mycosis fungoides (non-lesional and lesional) show lower human Beta Defensin-1 mRNA expression and higher human Beta Defensin-2 and human Beta Defensin-3 mRNA expression. BBeta Defensin is highly expressed by epithelial cells. Beta-defensin 1 may play a role in the pathogenesis of severe sepsis. Variation in human Beta Defensin-1 contributes to asthma diagnosis, with apparent gender-specific effects. Human Beta Defensin-3 is a dimer, while Human BD-1 and Human BD-2 are monomeric. The expression of Human BD1 is correlated with induction profiles in gingival keratinocytes. The level of expression of human DEFB1 mRNA is lower than that of human BD3 and human BD-2 in reconstructed epidermis. Human BD1 is down-regulated in human prostatic and renal carcinomas.

Description

Beta Defensin-2 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 41 amino acids and having a molecular mass of 4.3 kDa. BD-2 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Human BD-2 was lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution containing 20 mM PB pH 7.4 and 130 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized Beta Defensin-2 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

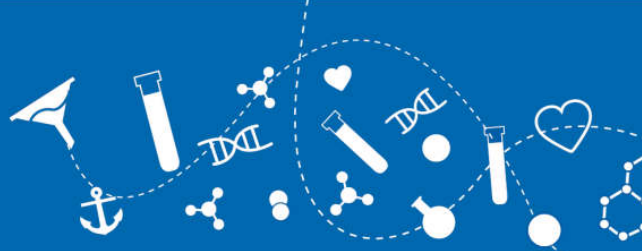
Lyophilized Beta Defensin-2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-2 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

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

Amino Acid Sequence

GIGDPVTCLK SGAICHPVFC PRRYKQIGTC GLPGTKCCKK P



Activity

Determined by the ability to chemoattract human dendritic immature cells at a concentration of 10 - 100 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.