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Datasheet for ABIN987770 beta 2 Defensin Protein

Overview

Quantity:	1 mg
Target:	beta 2 Defensin (BD-2)
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	GIGDPVTCLK SGAICHPVFC PRRYKQIGTC GLPGTKCCKK
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a chemotaxis bioassay using immature human dendritic cells is less than 100 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^4$ IU/mg.
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1 EU/ μ g of rHuBD-2 as determined by LAL method

Target Details

Target:	beta 2 Defensin (BD-2)
Alternative Name:	beta-Defensin 2 (BD-2) (BD-2 Products)
Background:	Defensins (alpha and beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The α -defensins are distinguished from the beta-defensins by the pairing of their three disulfide bonds. To date, four human beta-defensins have been identified, BD-1, BD-2, BD-3 and BD-4. beta-defensins are

Target Details

expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they are chemoattractant towards immature dendritic cells and memory T cells. The beta-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence and, in the case of BD-1 (36 a.a.), a propeptide region. beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. beta-Defensins are 3-5 kDa peptides ranging in size from 33-47 amino acid residues. Synonym: beta-Defensin 2 (BD-2), Human. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4, 130mM NaCl.

Molecular Weight:	Approximately 4.3 kDa, a single non-glycosylated polypeptide chain containing 41 amino acids.
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.
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Storage:	4 °C
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