GenScript Make Research Easy

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DATASHEET

BD-2, Mouse

Cat. No.: Z02894

Product Introduction

Mouse
BD-2 (Ala21-Lys71) Accession # P82020
> 98% as analyzed by SDS-PAGE > 98% as analyzed by HPLC
< 1 EU/µg of protein by LAL method
Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using immature human dendritic cells is in a concentration of 10-100 ng/ml.
E. coli
5.5 kDa
Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target 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 β -defensins by the pairing of their three disulfide bonds. To date, four β -defensins have been identified; BD-1, BD-2, BD-3 and BD-4. β -defensins are 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 β -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. β -defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds.

Synonyms : mBD-2; Defensin, beta 2; Defb2



For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.