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Datasheet for ABIN2468266

Defensin beta 3 Protein (DEFB3)

Overview

Quantity:	0.005 mg
Target:	Defensin beta 3 (DEFB3)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	GIINTLQKYY CRVRGGRCV LSCLPKEEQI GKCSTRGRKC CRRKK
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	Defensin beta 3 (DEFB3)
Alternative Name:	BD-3 (DEFB3 Products)
Background:	<p>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 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-</p>

Target Details

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. Recombinant Human BD-3 is a 5.1 kDa protein containing 45 amino acid residues.

Gene ID: 55894

NCBI Accession: [NP_061131](#)

OMIM: 8923890

UniProt: [P81534](#)

Pathways: [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling Advice: As with any protein, exposing BD3 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -20 °C

Storage Comment: The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted BD3 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.

Expiry Date: 24 months