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Datasheet for ABIN2468909 **alpha Defensin 1 Protein**

Overview

Quantity:	0.005 mg
Target:	alpha Defensin 1 (DEFA1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	ACYCRIPACI AGERRYGYCI YQGRLWAFCC
Characteristics:	Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0 - 10.0 ng/mL.
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:	alpha Defensin 1 (DEFA1)
Alternative Name:	alpha Defensin-1 (DEFA1 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 which include NP-1, NP-2 and NP-3, are distinguished from the beta-defensins by the pairing of their three disulfide bonds. In addition to antimicrobial activity, NP-1 exhibits chemotactic activity on

Target Details

dendritic cells. NP-1 is expressed as the C-terminal portion of an inactive precursor protein, which also contains a 19 amino acid N-terminal signal sequence and a 45 amino acid polypeptide. NP-1 contains a six-cysteine motif that forms three intra-molecular disulfide bonds. Recombinant human NP-1 is a 3.4 kDa protein containing 30 amino acid residues.

Gene ID: 1667

NCBI Accession: [NP_004075](#)

OMIM: 4758146

UniProt: [P59665](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling Advice: As with any protein, exposing NP-1 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 NP-1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.

Expiry Date: 24 months