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Datasheet for ABIN1096116
DEFB4A Protein (AA 24-64)

Overview

Quantity:	50 µg
Target:	DEFB4A (DEFB4)
Protein Characteristics:	AA 24-64
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human β -Defensin 4A
Sequence:	GIGDPVTCLK SGAICHPVFC PRRYKQIGTC GLPGTKCCKK P
Characteristics:	Recombinant Human beta-Defensin 4A is produced with our E. coli expression system. The target protein is expressed with sequence (Gly24-Pro64) of Human beta-Defensin 4A.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	DEFB4A (DEFB4)
Alternative Name:	beta-Defensin-4A (DEFB4 Products)
Background:	Beta-Defensin 4A is a membrane-active cationic peptide that functions in inflammation and

Target Details

innate immune responses. There are at least 30 beta-Defensins, which are distinguished from alpha-Defensins by the connectivity pattern of their three intermolecular disulfide bonds. Members of the Defensin family are highly similar in protein sequence. This gene encodes Defensin, DEFB4, which has broad-spectrum antimicrobial activity and may play an important role in innate epithelial defense. They are highly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue. beta-Defensin 4A has low expression in salivary gland, bone marrow, colon, stomach, polyp and larynx. No expression in small intestine. The 45 amino acid mature human BD3 shares 38% and 33% amino acid sequence identity with mouse and rat BD3, respectively.

Alternative Names: Beta-Defensin 4A, Beta-Defensin 2, BD-2, hBD-2, Defensin, Beta 2, Skin-Antimicrobial Peptide 1, SAP1, DEFB4A, DEFB102, DEFB2, DEFB4, DEFB4B

Molecular Weight: 4.33 kDa

UniProt: [O15263](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 130 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months