Recombinant Human Defensin, Beta 4A

Cat. No. DEFB4A -5387H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanDefensin beta 4 is a single, non-glycosylated polypeptide chain containing 50amino acids.
Species	Human
Source	E.coli
Description	DEFB4A also known as skin-antimicrobial peptide 1(SAP1) is a peptide that in humans is encoded by the DEFB4 (defensin, beta 4)gene. Human DEFB4A is a cysteine-rich cationic low molecularweight antimicrobial peptide recently discovered in lesional skin.
Form	Lyophilized from asterile filtered solution in 20 mM PBS, pH 7.4 + 130 mM NaCl.
Molecular Weight	6.0 kDa
Purity	> 98% by HPLC andSDS-PAGE.
Endotoxin Level	< 0.1 ng/μg ofDefensin beta 4.
Biological Activity	Determined by itsability to chemoattract human monocytes using a concentration range of 0.1-50ng/mL.
Sequence	EFELDRICGYGTARCRKKCR SQEYRIGRCP NTYACCLRKW DESLLNRTKP

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Reconstitution	Centrifuge vialprior to opening. Add sterile distilled water or aqueous buffer to a concentrationof 0.1-1.0 mg/mL. Further dilutions should be made in appropriate bufferedsolutions.
Storage	Stable at 2-8°C, butbest kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeatedfreeze/thaw cycles.
OfficialSymbol	DEFB4A

GENE INFORMATION

Gene Name	DEFB4A defensin, beta 4A [Homosapiens]
Synonyms	DEFB4A; defensin,beta 4A; BD-2; SAP1; DEFB2; DEFB4; HBD-2; DEFB-2; DEFB102; hBD-2;beta-defensin 4A; Skin-antimicrobial peptide 1; defensin, beta 2; defensin,beta 4; OTTHUMP00000159651; skin-antimicrobial peptide 1; Defensin, beta 2;Skin-antimicrobial peptide 1
Gene ID	1673
mRNA Refseq	NM_004942
Protein Refseq	NP_004933
MIM	602215
UniProt ID	O15263
Chromosome Location	8p23.1

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