

Defb1

Recombinant Rat beta-Defensin 1

Catalog No.	CS506A CS506B CS506C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	BD-1, defensin beta 1		
Description:	<p>Defensin are 3-4 kDa antimicrobial peptides of which three distinct families have been identified; alpha-defensins, beta-defensins, and insect defensins. Rat beta-Defensin 1, as a member of the beta-defensin family, is a salt-sensitive antimicrobial peptide present in epithelia of the lung and urogenital tract. The predicted amino acid sequence shows the hallmark features of other known epithelial beta-defensins, including the ordered array of six cysteine residues.</p> <p>Recombinant Rat beta-Defensin 1 is a single non-glycosylated polypeptide chain containing 37 amino acids.</p>		
Gene ID:	83687		
Source:	<i>E. coli</i>		
Molecular Weight:	4.1 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB + 500 mM NaCl, pH 7.0.		
Purity:	>95 % by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity as determined by a chemotaxis bioassay using CD34+ dendritic cells is in a concentration range of 100 - 1,000 ng/ml.		
Amino Acid Sequence:	DQYRCLQNGG FCLRSSCP SH TKLQGTCKPD KPNCCRS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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