

pBD-1

Chemical Properties

CAS No. :	206367-33-1
Formula:	C310H543N91O73S11
Molecular Weight:	7065.98
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	pBD-1 is an endogenous and constitutively expressed antimicrobial peptide (AMP) from porcine tissues, particularly expresses in pig mucosal epithelial sites with the contribution of mucosal and systemic host defenses in pigs.
Targets(IC50)	Antibacterial
In vitro	In a northern blot analysis, pBD-1 mRNA only expresses in tongue epithelial tissues from 4-5 week-old pigs. In RT-PCR analysis, pBD-1 message throughout the epithelia of the respiratory (from the nasal septum to lung) and gastrointestinal (from the esophagus to rectum) tracts. In addition, it is detected in thymus, liver, kidney, urinary bladder, spleen, lymph node, brain, testis, skin, heart, muscle, bone marrow, alveolar macrophages, peripheral blood neutrophils, and the umbilical cord. The only cells that do not express pBD-1 are peripheral blood mononuclear cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1415 mL	0.7076 mL	1.4152 mL
5 mM	0.0283 mL	0.1415 mL	0.283 mL
10 mM	0.0142 mL	0.0708 mL	0.1415 mL
50 mM	0.0028 mL	0.0142 mL	0.0283 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang G, et al. Molecular cloning and tissue expression of porcine beta-defensin-1. FEBS Lett. 1998 Mar 6;424(1-2): 37-40.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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