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产品名称: **RNPA1000**

产品别名: **RNPA1000**

生物活性:	
Description	RNPA1000 is an attractive antimicrobial development candidate; RnpA inhibitor. IC50 value: Target: RnpA inhibitor The antibiotic vancomycin and a novel Staphylococcus aureus RnpA inhibitor under pre-clinical development, RNPA1000, were included in these studies. Rheological testing characterized the workability of the glass polyalkenoate cement over a range of powder-to-liquid ratios and polyacrylic acid concentrations and revealed that the most suitable powder-to-liquid ratio was 2/1.25 with 40 wt% polyacrylic acid. Loading glass polyalkenoate cement with either 20-30% RNPA1000 or vancomycin prevented bacterial growth. However, longer incubations allowed for Staphylococcus aureus colonies to form near the vancomycin-infused cement, indicating that vancomycin may not be suitable for long-term biofilm inhibition in comparison to RNPA1000.
References	[1]. Eidem TM, et al. Drug-eluting cements for hard tissue repair: a comparative study using vancomycin and RNPA1000 to inhibit growth of Staphylococcus aureus. J Biomater Appl. 2014 Apr;28(8):1235-46. [2]. Eidem TM, et al. Small-molecule inhibitors of Staphylococcus aureus RnpA-mediated RNA turnover and tRNA processing. Antimicrob Agents Chemother. 2015 Apr;59(4):2016-28.

源叶生物