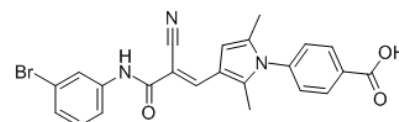


**Product Name** : RNPA1000  
**Cat. No.** : PC-43233  
**CAS No.** : 359600-10-5  
**Molecular Formula** : C<sub>23</sub>H<sub>18</sub>BrN<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 464.3113  
**Target** : Bacterial  
**Solubility** : 10 mM in DMSO



## Biological Activity

RNPA1000 is a potent, specific small molecule inhibitor of *S. aureus* **RnpA RNA degradation** activity (IC<sub>50</sub>=100-125 μM), limits *S. aureus* mRNA turnover and growth.

RNPA1000 does not affect the activity of the *E. coli* RNase HI, RNase A, RNase I or in-house purified *S. aureus* RNase J1 at 750 μM.

RNPA1000 also limits growth of other important Gram-positive bacterial pathogens, exhibits antimicrobial efficacy against biofilm associated *S. aureus* (*S. aureus* MRSA USA100 strain MIC=26 μg/mL) and protects against the *S. aureus* pathogenesis in an animal model of infection.

## References

Olson PD, et al. *PLoS Pathog.* 2011 Feb 10;7(2):e1001287.

Eidem TM, et al. *J Biomater Appl.* 2014 Apr;28(8):1235-46.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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