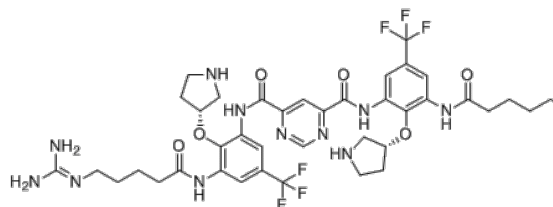


**Product Name** : Brilacidin tetrahydrochloride  
**Cat. No.** : PC-47040  
**CAS No.** : 1224095-99-1  
**Molecular Formula** : C<sub>40</sub>H<sub>54</sub>Cl<sub>4</sub>F<sub>6</sub>N<sub>14</sub>O<sub>6</sub>  
**Molecular Weight** : 1082.75  
**Target** : Bacterial  
**Solubility** : 10 mM in DMSO



## Biological Activity

Brilacidin (PMX-30063) is a synthetic, non-peptide, defensin-mimetic compound, exhibits broad-spectrum anti-microbial and anti-**SARS-CoV-2** activities.

Brilacidin at 0.5-1 μM has potent bactericidal activities against Gram-positive and Gram-negative bacteria, with minimal propensity for the development of resistance, causes membrane depolarization in *Staphylococcus aureus* (Gram-positive). Brilacidin inhibits SARS-CoV-2 viral infection by blocking viral entry, inhibits pseudotyped SARS-CoV-2 viruses expressing spike proteins from the P.1 Brazil strain and the B.1.1.7 UK strain.

## References

Mensa B, et al. *Antimicrobial Agents and Chemotherapy* 58.9 (2014): 5136–5145.

Chuan Xu, et al. *EC Microbiol.* 2022 Apr;18(4):1-12.

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

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