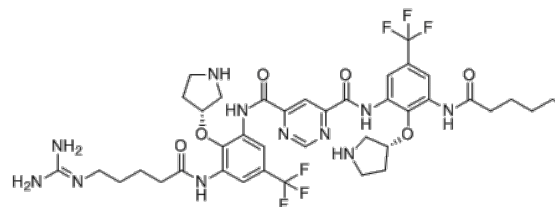


<b>Product Name</b>	: Brilacidin tetrahydrochloride
<b>Cat. No.</b>	: PC-47040
<b>CAS No.</b>	: 1224095-99-1
<b>Molecular Formula</b>	: C <sub>40</sub> H <sub>54</sub> Cl <sub>4</sub> F <sub>6</sub> N <sub>14</sub> O <sub>6</sub>
<b>Molecular Weight</b>	: 1082.75
<b>Target</b>	: Bacterial
<b>Solubility</b>	: 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  $\mu$ M 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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