Antibacterial peptide NP-6 affects *Staphylococcus aureus* by multiple modes of action

Table S1. Prediction of physicochemical properties of NP-6.

Properties	NP-6
Theoretical isoelectric point	11.10
Net charge	+4
Half-life (Mammal)	44 h
Half-life (Yeast)	>20 h
Half-life (E. coli)	>10 h
GRAVY	-0.174
amphipathy	0.84

Note: GRAVY; Grand average of hydropathicity.

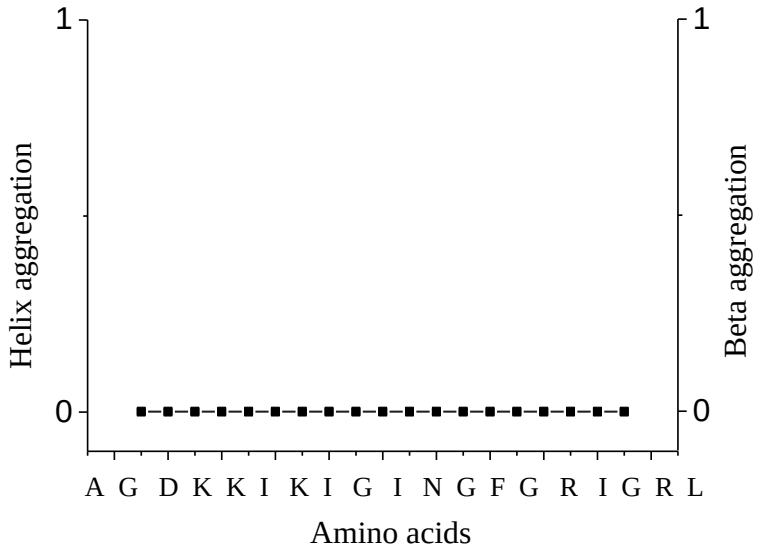


Figure S1. Prediction of aggregation potentiality of NP-6 in solution by Aggrescan 3D server

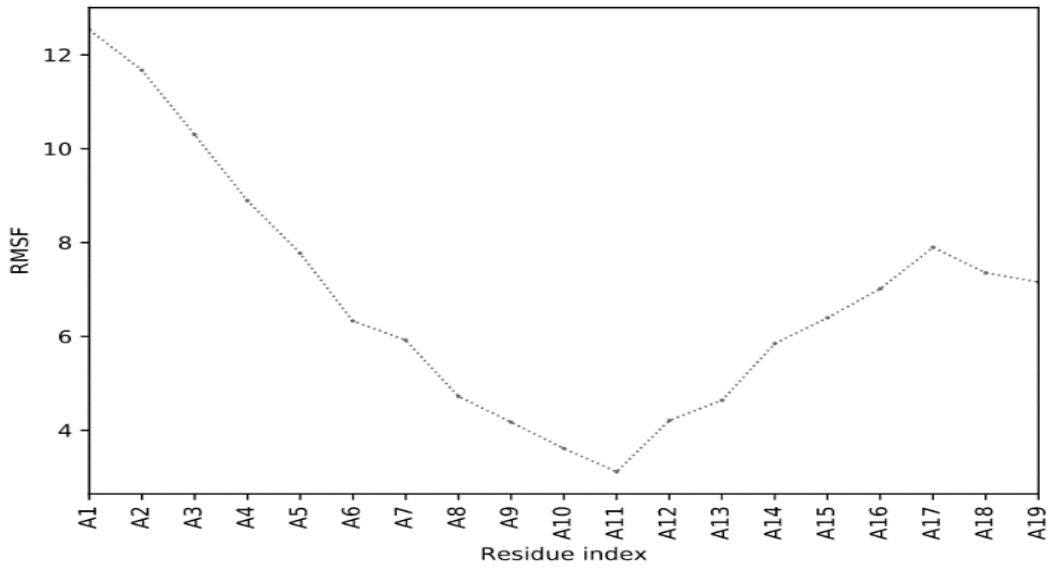


Figure S2. Prediction of aggregation potentiality of NP-6 in the presence of bacterial membrane by Tango.

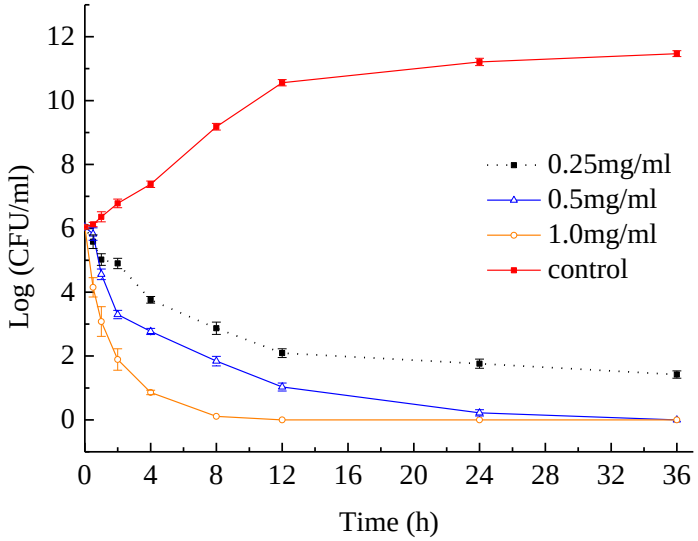
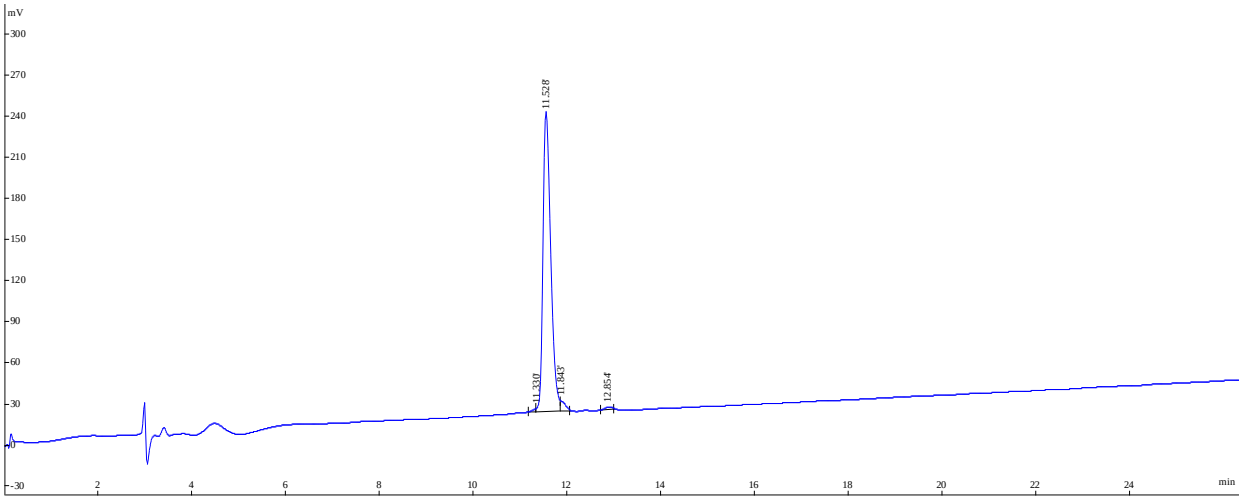
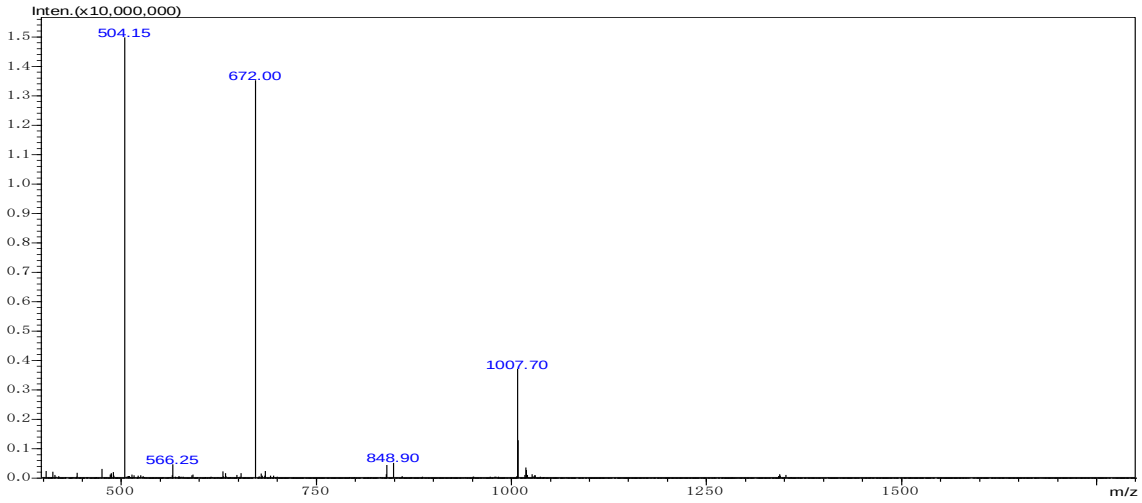


Figure S3. Time-killing curve of NP-6 against *S. aureus*



(a)



(b)

Figure S4. High performance liquid chromatography (a) and mass spectrometry (b) of NP-6