Supplementary Table S1. RT-qPCR primers

	Forward primer	Reverse primer
DENV-1	5′-CAATATGCTGAAACGCGAGAGAAA-3′	5′-CGCTCCATACATCTTGAATGAG-3′
DENV-2		5′-AAGACATTGATGGCTTTTGA-3′
DENV-3		5′-AAGACGTAAATAGCCCCCGAC-3′
DENV-4		5′-AGGACTCGCAAAAACGTGATGAAT-3′
Actin	5′ATTGCCGACAGGATGCAGAA-3′	5′-GCTGATCCACATCTGCTGGAA-3′

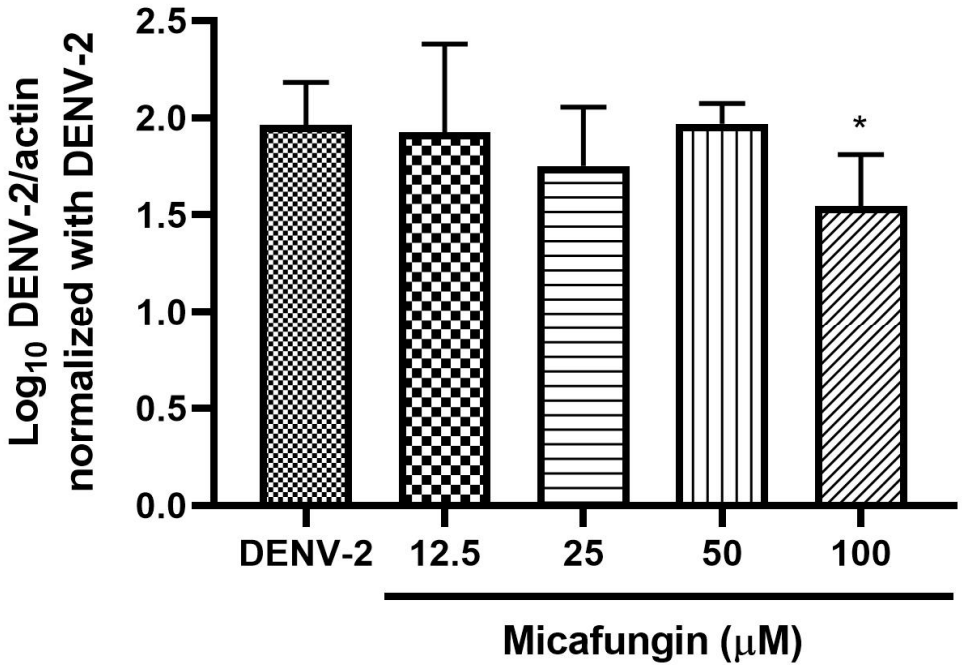
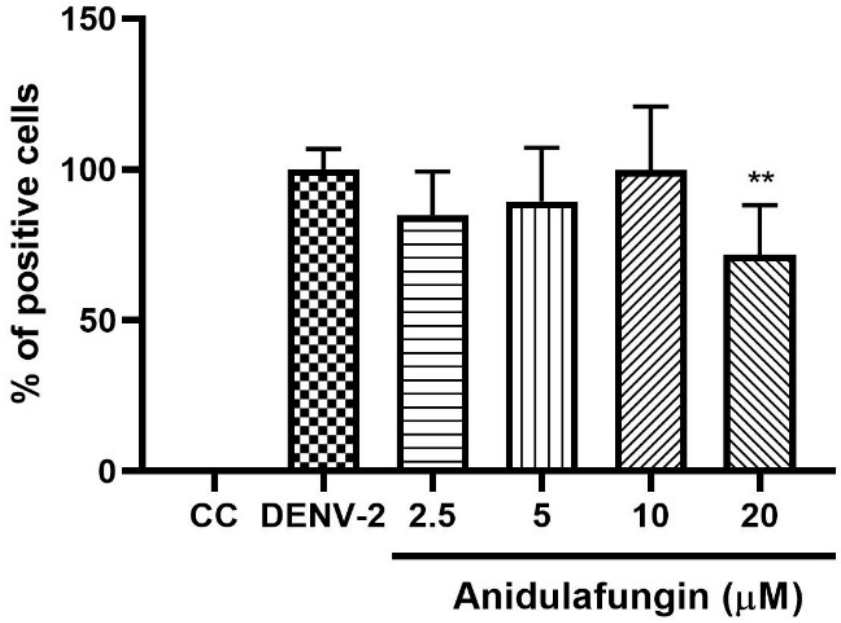


Figure S1. The effect of micafungin on DENV-2 replication. RT-qPCR assay was used to quantify the RNA level. All data were obtained from at least four independent experiments, where significance was indicated as follows: *p<0.05; **p<0.01; ***p<0.001.

(A)



(B)

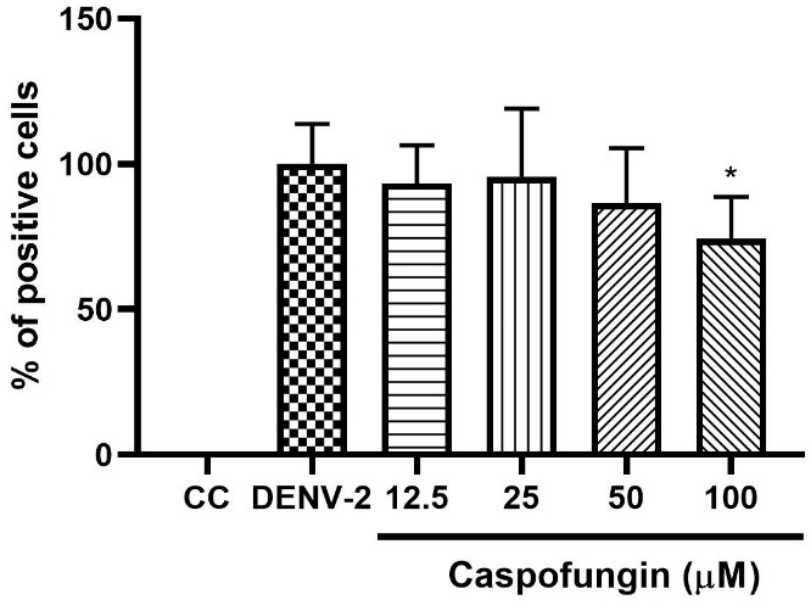
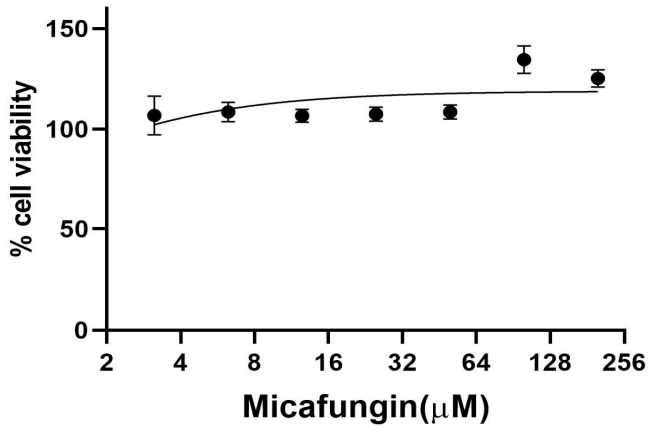
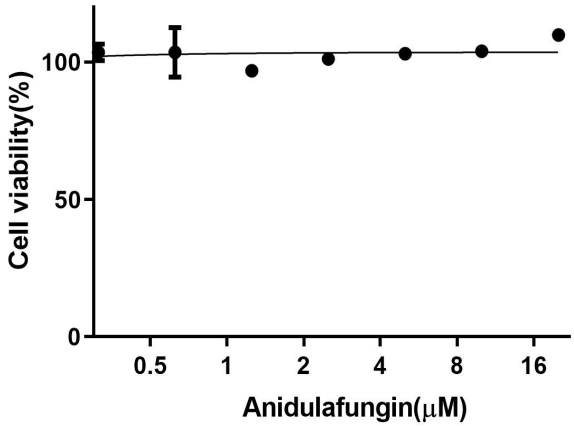


Figure S2. The virucidal assay of **(A)** anidulafungin and **(B)** caspofungin. IFA was used to calculate the foci of DENV-2, and the results were performed by percentage of positive cell compared with virus control. All data were obtained from at least six independent experiments, where significance was indicated as follows: *p<0.05; **p<0.01; ***p<0.001.

(A)



(B)



(C)

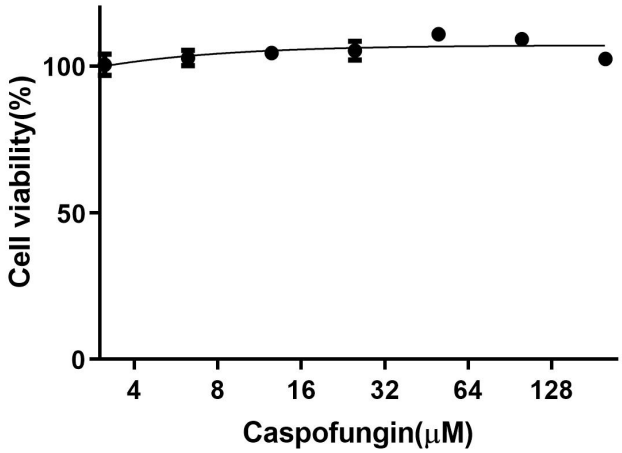
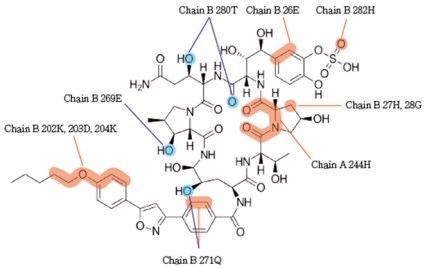
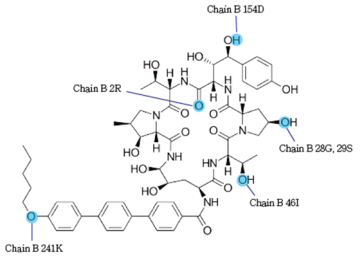
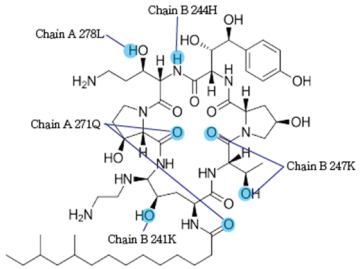


Figure S3. The cell viability via CCK-8 assay. The cell viability was determined by CCK-8 assay (A) micafungin for 3day incubation, (B) anidulafungin, and (C) caspofungin for 2day incubation.

Supplementary Table S2. The structures, preparations, Cytotoxicity (CC_{50}), inhibition concentration (IC_{50}), and selective index (SI) of micafungin and its analogs

Drug name	Structure	Stock concentration / Solvent	The highest concentration / Cytotoxicity	IC_{50}	CC_{50}	SI
Micafungin		50mM / Water	100μM / none	10.23μM	>200μM	>19.55
Anidulafungin		50mM / DMSO	20μM / none	3.24μM	>20μM	>6.17
Caspofungin		10mM / Water	100μM / none	20.78μM	>200μM	>9.62

*The hydrogen bond is shown in blue, and the covalent bond shown in orange.