

Supplementary Materials for

25-Hydroxycholesterol-Conjugated EK1 Peptide with Potent and Broad-Spectrum Inhibitory Activity against SARS-CoV-2, Its Variants of Concern and Other Human Coronaviruses

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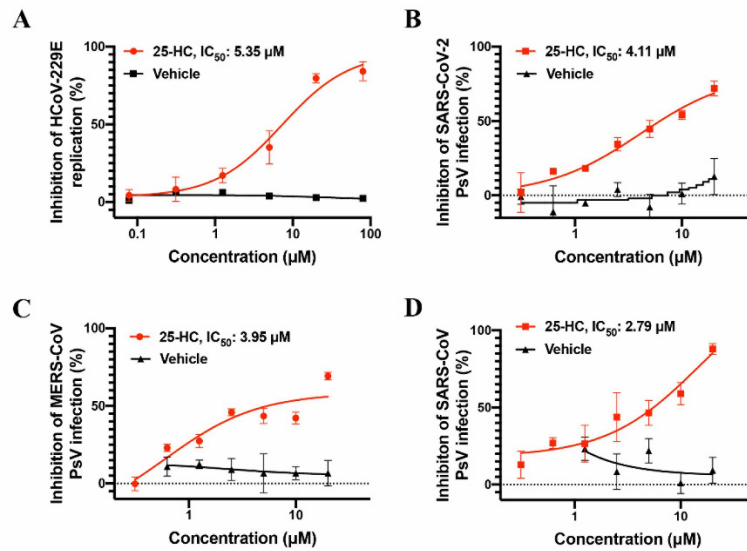
† These authors contributed equally to this work.

Figure legend

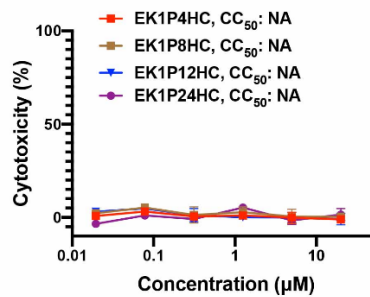
Supplementary Figure S1. Broad coronavirus inhibitory activity of 25-HC.

Supplementary Figure S2. Cytotoxicity of 25-HC-modified peptides.

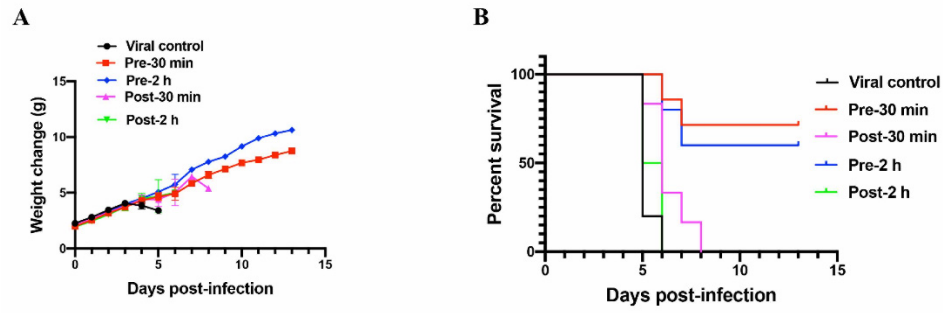
Supplementary Figure S3. In vivo protective efficacy of low dosage EK1P4HC (1mg/kg) against HCoV-OC43 challenge in the newborn mice model.



Supplementary Figure S1. Broad coronavirus inhibitory activity of 25-HC. (A) Inhibitory activity of 25-HC against authentic HCoV-229E infection. (B) Inhibitory activity of 25-HC against SARS-CoV-2 PsV infection. (C) Inhibitory activity of 25-HC against MERS-CoV PsV infection. (D) Inhibitory activity of 25-HC against SARS-CoV PsV infection.



Supplementary Figure S2. Cytotoxicity of 25-HC-modified peptides.



Supplementary Figure S3. In vivo protective efficacy of low dosage EK1P4HC (1mg/kg) against HCoV-OC43 challenge in the newborn mice model. (A) Body weight change of HCoV-OC43-infected newborn mice. (B) Survival curves of HCoV-OC43-infected newborn mice.