

Figure S1. Structure and activity data (EC₅₀ and CC₅₀) of Z-Tyr-Ala-CHN₂ (n = 2) and its analogues (n = 1) derived from the primary screen in VeroE6-eGFP cells. EC₅₀ values were obtained from a CPE reduction assay against SARS-CoV-2. CC₅₀ values were obtained from the toxicity counter screen which was performed on the same cell line using the ATPlite readout. n indicates the number of independent experiments.



Figure S2. Z-Tyr-Ala-CH₂ does not inhibit SARS-CoV-2 infection in an upper respiratory tract model. HNEC ALI cultures were infected with the indicated isolates and treated with PF-07321332 at 2.5 μ M (red) and Z-Tyr-Ala-CHN₂ at 20 μ M (black). Cell control (CC; grey bars, DMSO 0.2%). Virus control (VC; blue bars, MOI 0.1 without compound). The mean \pm SD from within one representative experiment is shown. Within each experiment, conditions are performed in duplicate. DMSO, dimethyl sulfoxide.





Figure S3. Enzymatic Cathepsin L assay demonstrating that both Z-Tyr-Ala-CHN₂ and K777 inhibit Cathepsin L with EC₅₀ < 0.05 μ M. Leupeptin, an inhibitor of endosomal trypsin-like serine and cysteine proteases, was included as a positive control, whereas water was included as a negative control. The graph represents one experiment performed to confirm observations from literature.