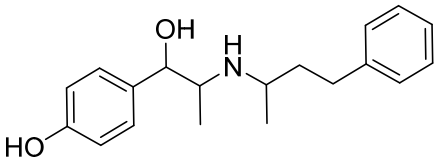
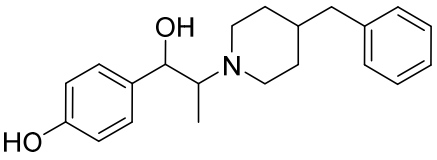
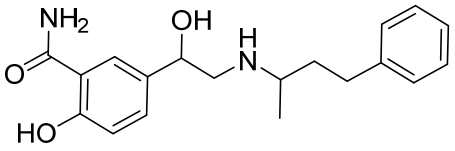


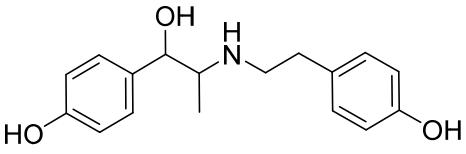

Nylidrin



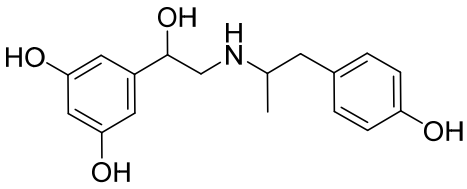

Ifenprodil



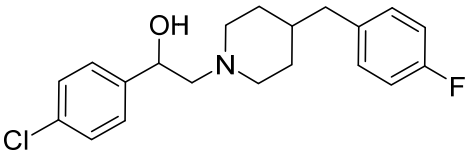

Labetalol




Ritodrine




Fenoterol

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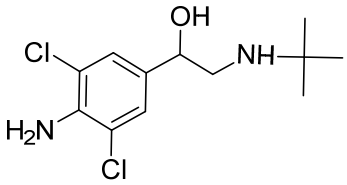
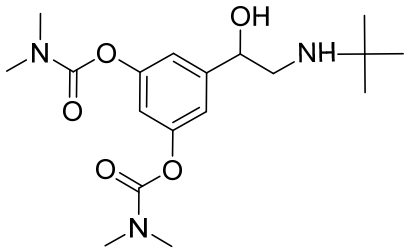
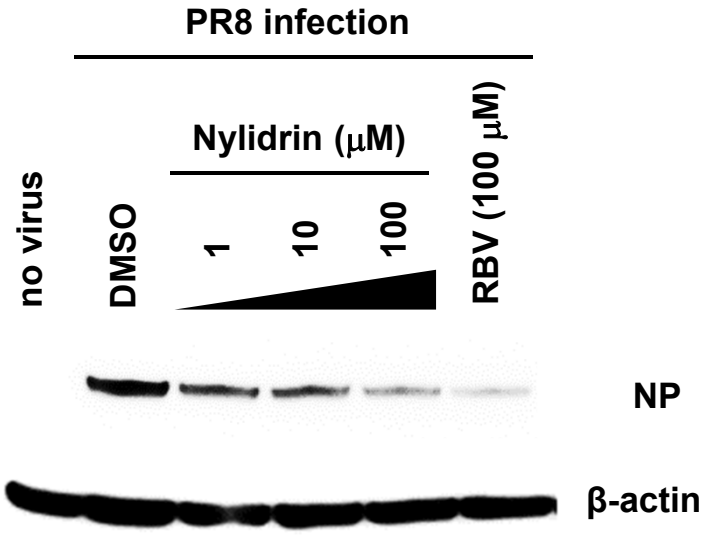



Clenbuterol

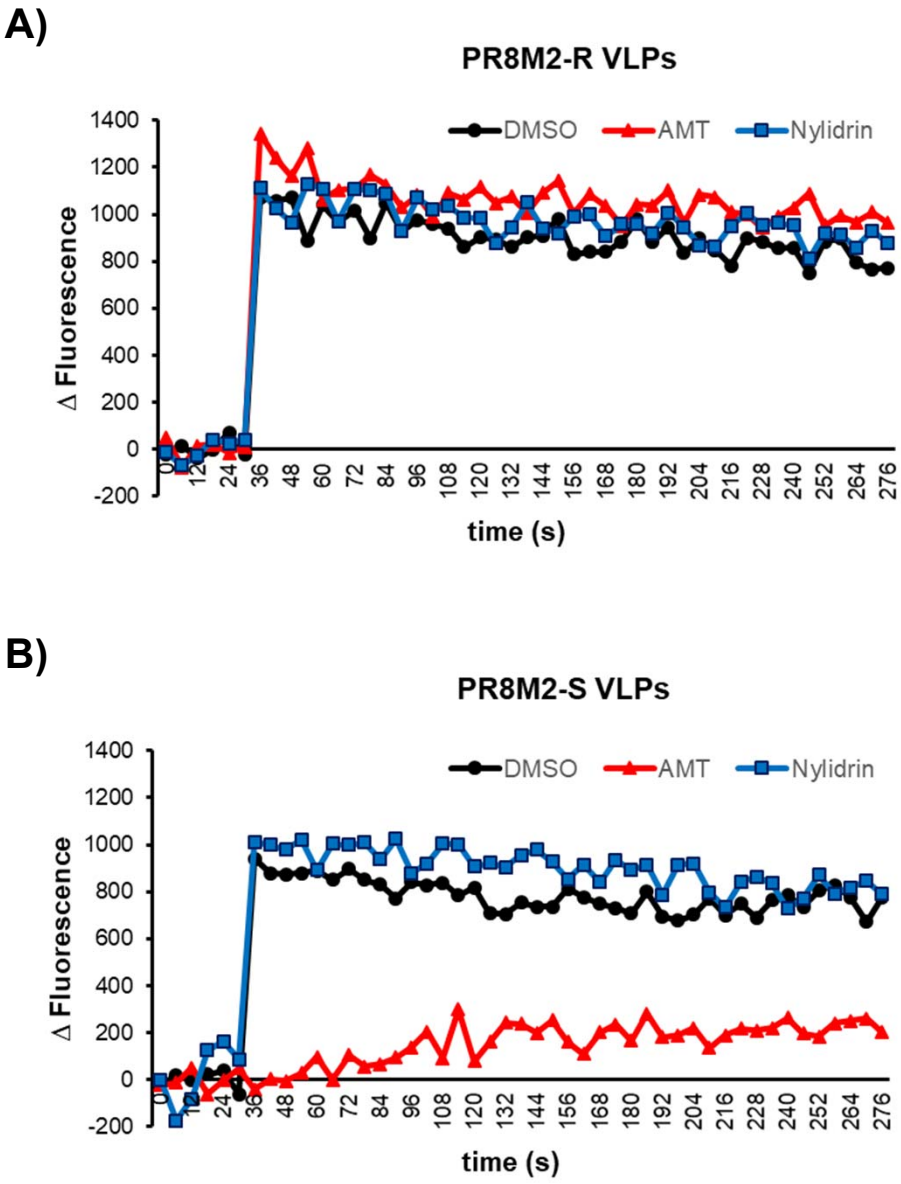



Bambuterol

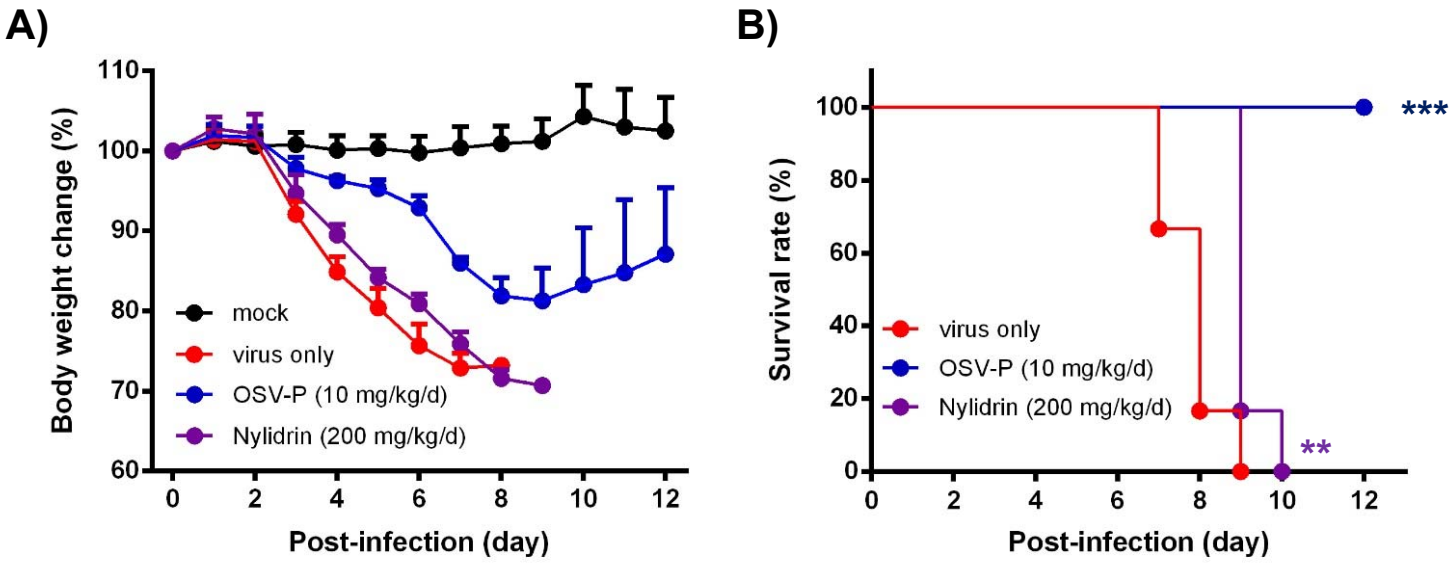
**Supplementary Figure S1.** Chemical structure of nylidrin and its analogues.




**Supplementary Figure S2.** Reduction of a viral protein, NP, by nylidrin in human lung epithelial cells. A549 cells were mock-infected (No virus) or infected with PR8 virus at an MOI of 0.01 in the presence of DMSO (0.2%, a delivery vehicle), nylidrin (1, 10 or 100 μM) or RBV (100 μM) for 24 h at 35°C. NP and β-actin, as a loading control, are marked on the right side of the gels.




**Supplementary Figure S3.** No effect of nylidin on the proton channel activity of influenza viral M2. Murine leukemia virus (MLV) Gag-derived VLPs with PR8M2-R (A) or PR8M2-S (B) were suspended in 10 mM HEPES (pH 7.0) and 150 mM NaCl supplemented with 1% FMP-Blue dye (Molecular Deivces, Sunnyvale, CA). They were incubated with 100 μM salinomycin or AMT at room temperature for 1 h. Channel activity was measured at 6 s intervals for 5 min after addition of 150 mM 2-(N-morpholino)ethanesulfonic acid (pH 4.5). DMSO-treated VLPs were used as a control. Proton channel activity was determined by measuring fluorescence at 6 s intervals for 5 min. Values represent the average of three independent experiments.




**Supplementary Figure S4.** Increase of mean survival time of maPR8-infected mice by oral administration of nylidrin. BALB/c mice (6–7 weeks old) infected with maPR8 (5 $MLD_{50}$) were orally treated with OSV-P (10 mg/kg/day) or nylidrin (200 mg/kg/day) twice a day beginning 4 h before virus infection at 8-h intervals for 6 days or 13 days post-infection, respectively. Body weight (A) and mortality (B) were measured every day. Statistical analysis was performed using the two-tailed Student's *t*-test relative to the virus-only group. $n = 6$; **, $P < 0.01$; ***, $P < 0.001$.