

Table S1 The sequence of primers used in this study and each PCR condition.

Primers name	Primer sequences	PCR condition
IAV-Primer set 1 (982 bp)	Fwd: 5'-ATGAGTCTTCTAACCGAGGTC-3' Rev: 5'-GTCAGCATAGAGCTGGAGTAA-3'	95°C for 5 min ↓ [95°C for 30 sec, 52°C for 30 sec, 72°C for 1 min] x 25, 24 times (Figure 2A, 2C) ↓ 72 °C for 10 min
IAV-Primer set 2 (253 bp)	Fwd: 5'-AAGACCAATCCTGTACCTC-3' Rev: 5'-CAGTTGTATGGGCCTCATATAC-3'	95°C for 5 min ↓ [95°C for 30 sec, 52°C for 30 sec, 72°C for 1 min] x 22 times ↓ 72 °C for 10 min
IAV-Primer set 3 (320 bp)	Fwd: 5'-ACAGATTGCTGACTCCCA-3' Rev: 5'-TGATCCTCTCGCTATTGCC-3'	95°C for 5 min ↓ [95°C for 30 sec, 52°C for 30 sec, 72°C for 1 min] x 22 times ↓ 72 °C for 10 min
FCV-Primer set (264 bp)	Fwd: 5'-TCCACACTAGCGTCAACTGG-3' Rev: 5'-GACGAGCGTCAAACAGAACA-3'	95°C for 5 min ↓ [95°C for 30 sec, 49°C for 30 sec, 72°C for 1 min] x 32 times ↓ 72 °C for 10 min
MNV-F1 and -R1 [1] (721 bp)	Fwd: 5'-GCCATGCATGGTGAAAAG-3' Rev: 5'-CATGCARACCAGGCGCATAG-3'	95°C for 5 min ↓ [95°C for 30 sec, 49°C for 30 sec, 72°C for 1 min] x 33 times ↓

		72 °C for 10 min
NIID_2019-nCoV _N_F2 and R2 (158 bp)	Fwd: 5'-AAATTTTGGGGACCAGGAAC-3' Rev: 5'-TGGCAGCTGTGTAGGTCAAC-3'	95°C for 5 min ↓ [95°C for 30 sec, 49°C for 30 sec, 72°C for 1 min] x 30 times ↓ 72 °C for 10 min

Figure S1

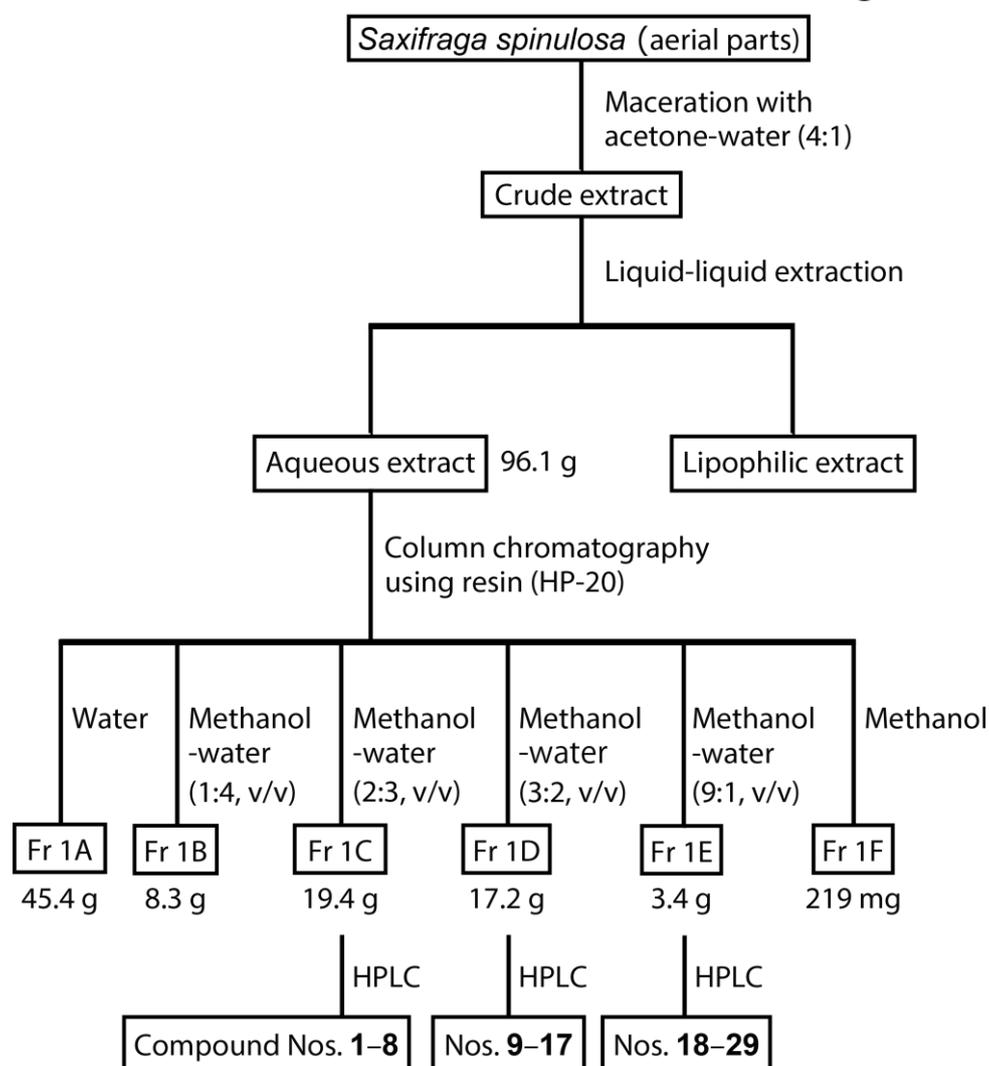


Figure S1. Scheme of the sample extraction and isolation.

Figure S2

Target: MNV, Concentration of sample: 25 $\mu\text{g/ml}$

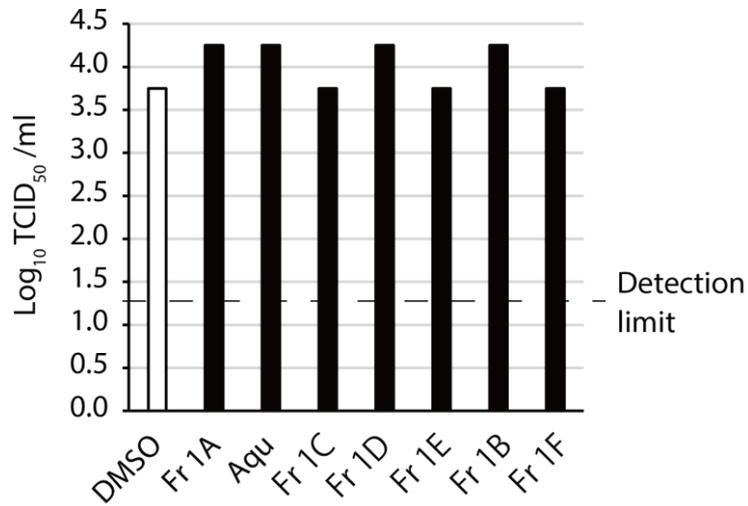
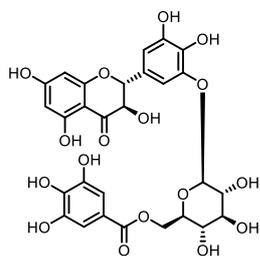


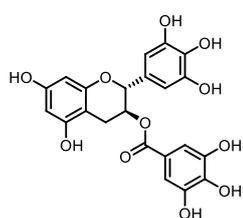
Figure S2. Evaluation of the MNV-inactivating activity of 25 $\mu\text{g/ml}$ SS-derived fractions. The SS-derived fractions and DMSO control were added to solutions containing MNV followed by incubation at 25°C for 48 h. Viral titer was then evaluated. Aqu: Aqueous extract.

Figure S3

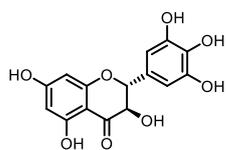
A



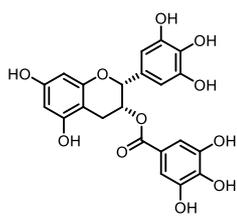
Compound 1



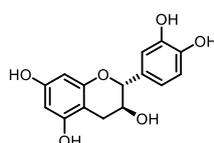
Compound 2



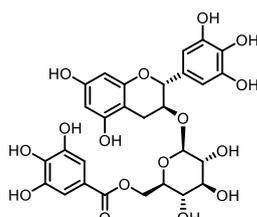
Compound 3



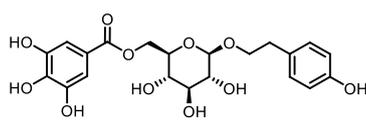
Compound 4



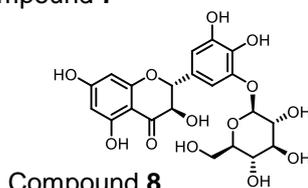
Compound 5



Compound 6



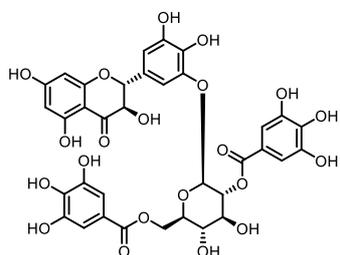
Compound 7



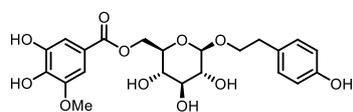
Compound 8

B

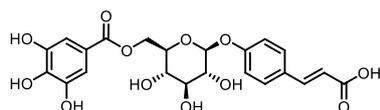
Figure S3



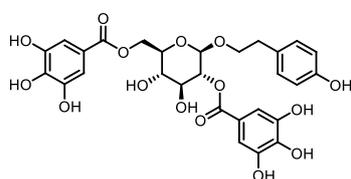
Compound 9



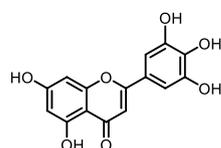
Compound 10



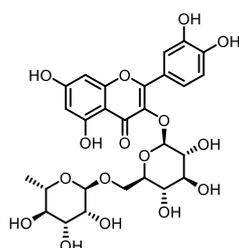
Compound 11



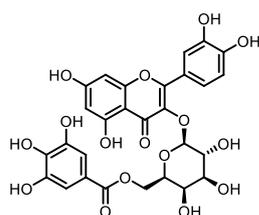
Compound 12



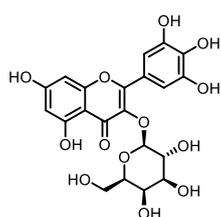
Compound 13



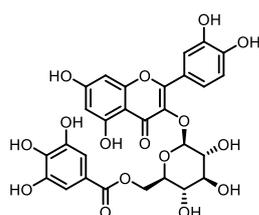
Compound 14



Compound 15



Compound 16



Compound 17

Figure S3

C

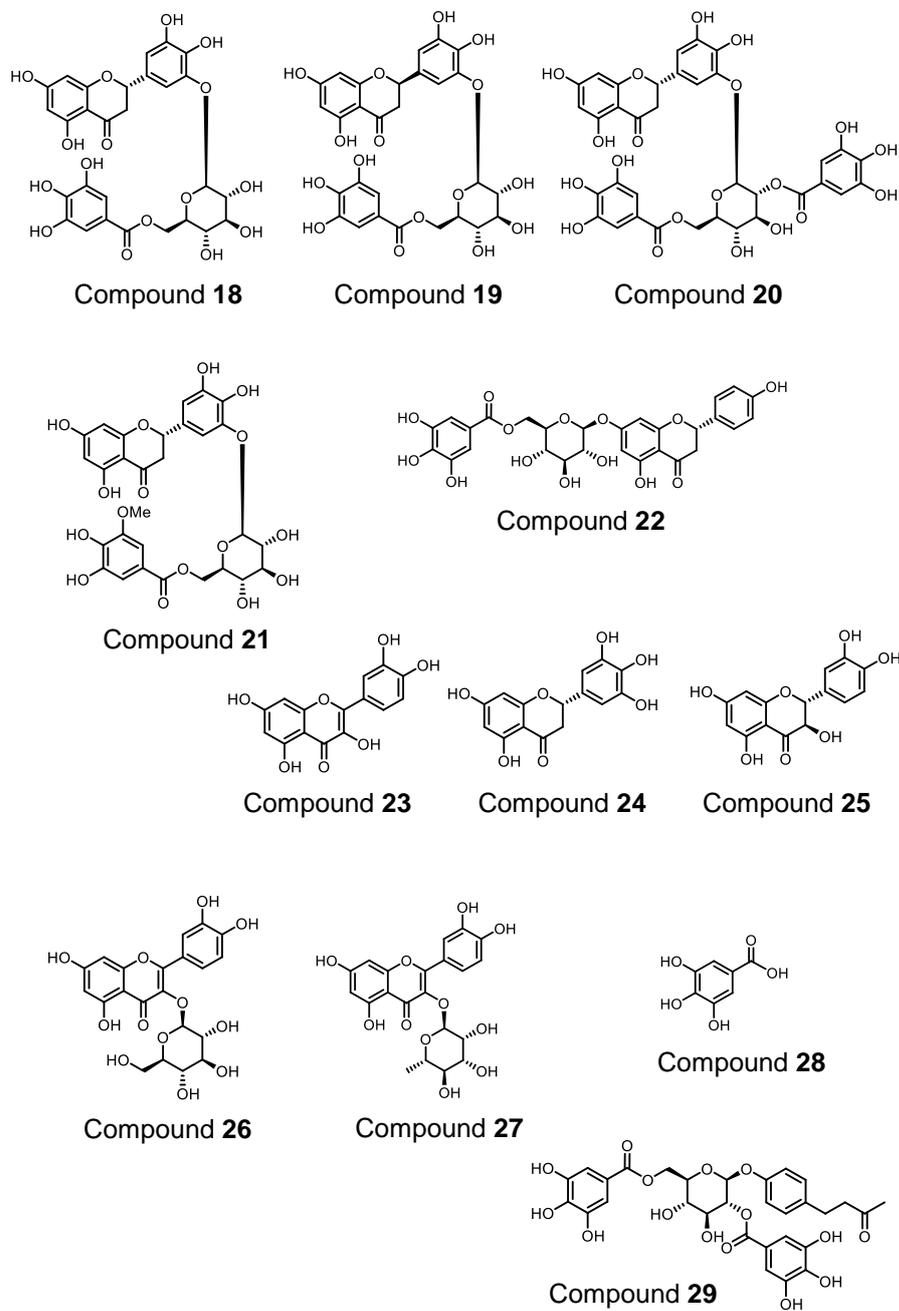


Figure S3. Chemical structures of compounds isolated from *SS*.
(A–C) Compounds isolated from (A) Fr 1C, (B) Fr 1D, and (C) Fr 1E.

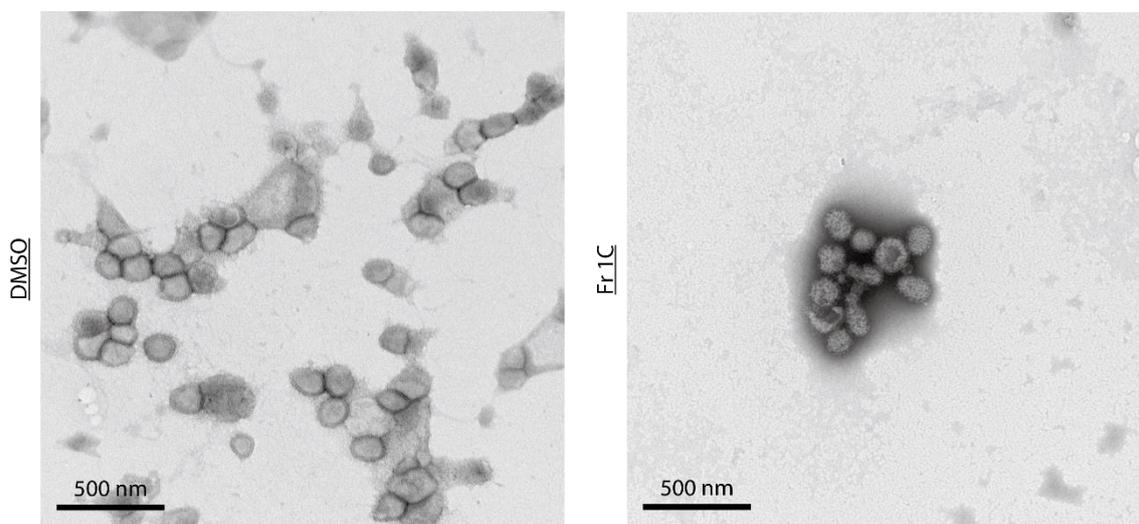
Electron microscopy (6.25 μm^2)

Figure S4. Electron microscopic images of IAV under low magnification (see Figure 3). The IAV virions featured in Figure 3 were evaluated using transmission electron microscopy under low magnification. The panels to the left and right include representative images of DMSO- and Fr 1C-treated virion particles, respectively in 6.25 μm^2 fields.

Figure S5

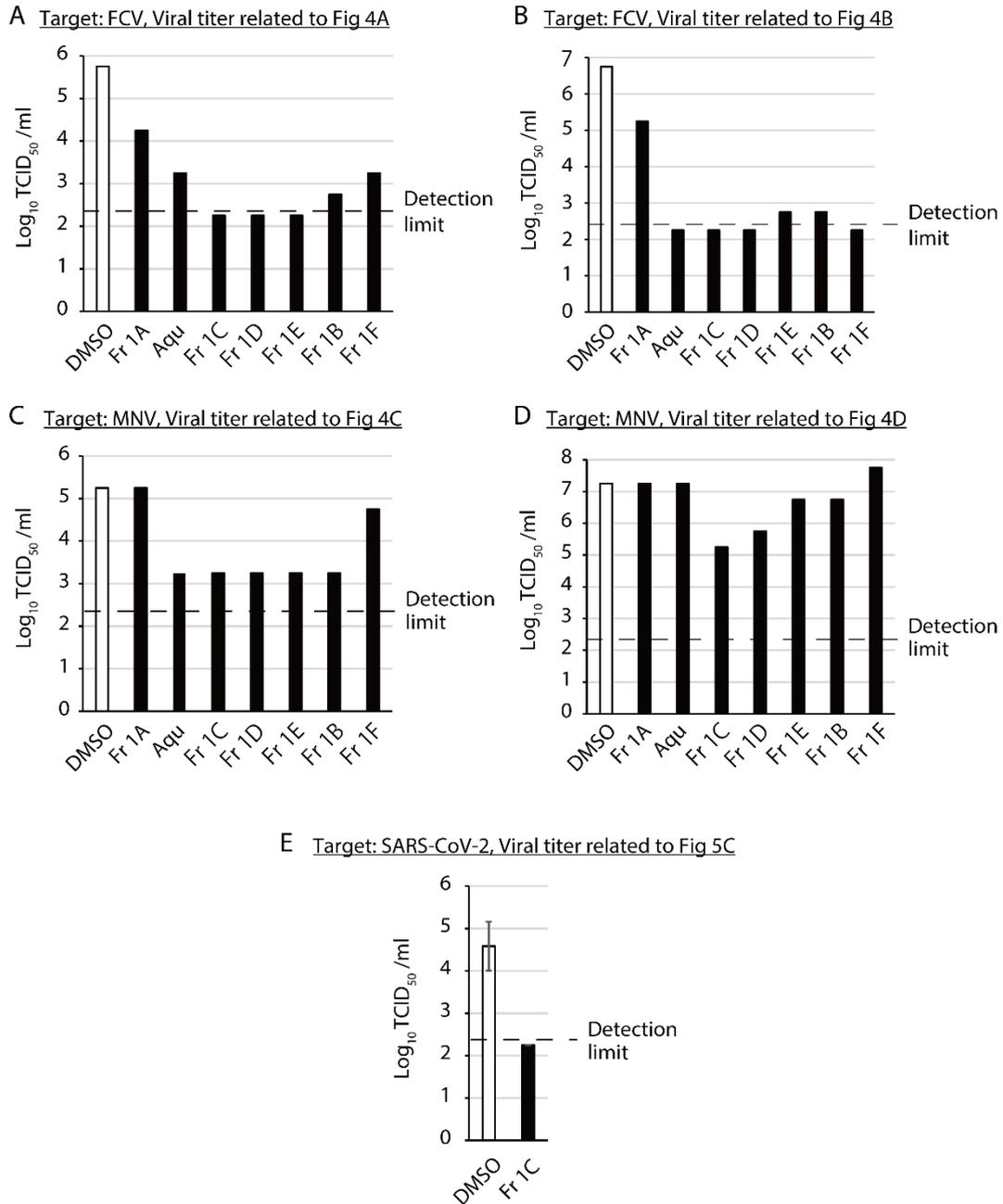


Figure S5. The viral titers of FCV, MNV, and SARS-CoV-2 treated with SS-derived fractions (see Figures 4 and 5).

(A–E) Viral titer of the viral mixtures in (A) Figure 4A, (B) Figure 4B, (C) Figure 4C, (D) Figure 4D, and (E) Figure 5C. Aqu: Aqueous extract.

Reference

1. Kitajima, M.; Oka, T.; Tohya, Y.; Katayama, H.; Takeda, N.; Katayama, K.
Development of a broadly reactive nested reverse transcription-PCR assay to detect murine noroviruses, and investigation of the prevalence of murine noroviruses in laboratory mice in Japan. *Microbiol. Immunol.* **2009**, 53, 531-534, doi:10.1111/j.1348-0421.2009.00152.x.